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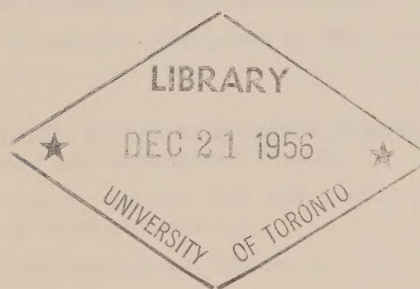
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MOTOR TRANSPORT TRAFFIC STATISTICS

PROVINCE OF ONTARIO

Year ended June 30, 1956

(1955/56)



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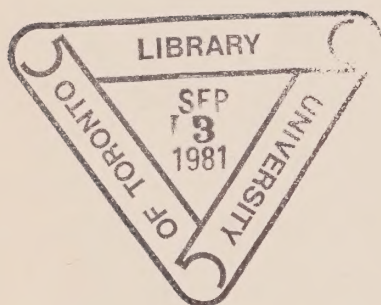


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INTRODUCTION

In June of this year, the first detailed report of the quarterly Motor Transport Traffic Survey was released by the Bureau. The report was for the Province of Manitoba covering the twelve month period July 1, 1954 to June 30, 1955.

This is the second release in a series which presents the results of the quarterly surveys in

Provinces across Canada and represents the results of four quarterly surveys conducted in the Province of Ontario during the twelve month period July 1, 1955 to June 30, 1956. Sample surveys are now being carried out in all other provinces and similar provincial annual reports will follow until Motor Transport Traffic Statistics can be produced for all Canada on a calendar year basis.

General Description of the Sample

Statistics presented in this report have been obtained from quarterly sample surveys in the Province of Ontario over the twelve month period ending June 30, 1956. The results of each quarterly sample survey were expanded to represent all trucks and inter-city buses registered in the province as at the time each individual survey was conducted. Since the surveys were for seven day periods, the results were also used to estimate traffic performed over the full three months of each quarter. The resultant expanded data for each of the four surveys were then added together to obtain provincial estimates for the twelve month period.

All trucks and buses registered in the Province of Ontario are represented in the statistics except trucks not engaged in transportation services and buses utilized for urban transit services. These include tow trucks, hearses, ambulances, snowmobiles, farm tractors, cranes, bulldozers, cat tracks, diggers, graders and other road building equipment, military and other government owned vehicles, taxis and passenger automobiles and those vehicles which are not required to obtain Ontario licence permits under Section 9 of the Ontario Highway Traffic Act. Although trailers as such are excluded, the details of tractor-trailer combinations are obtained by including the power units or tractors in the survey.

Through the excellent co-operation of the Provincial Government of Ontario and, in particular, the officials of the Ontario Department of Highways and the Motor Vehicle Branch, a sample of trucks and buses was selected at random each quarter from provincial registration records in Toronto.

Each sample of approximately 7,000 vehicles was selected quarterly immediately prior to the survey in order to be representative of the registrations currently in force. Each registration selected for inclusion in the sample was coded so that any particular vehicle would not be chosen more than once during a particular licence year.

Each quarterly sample selected from the provincial registrations was stratified by gross vehicle

weight groups and as much as possible by function. As the Ontario registration system does not register vehicles on a functional basis it was not possible to classify the vehicles in the sample into "farm", "urban" and "private" prior to the survey. Since all common or for hire vehicles are required to obtain, in addition to the regular commercial licence, a Public Commercial Vehicle plate, it was possible to separate "for hire" vehicles from others. This "other" classification was later divided into "farm", "urban" and "private" on the basis of replies to the survey questionnaire. "Farm" trucks are those which are owned and operated by farmers primarily to transport farm produce to the market, to carry farm supplies and for service purposes. "Urban" trucks are those which are operated primarily within urban areas, and "Private" trucks are those which are owned and operated on intercity routes by business and industry to transport their own raw materials, finished goods and merchandise.

An overall annual sample of ten per cent of all trucks registered in the province was considered sufficient to obtain reliable statistics but since the sample was to be stratified into gross vehicle weight groups, other considerations were important. For example, almost 150,000 vehicles or approximately 58 per cent of the provincial total have a gross vehicle weight of 5,000 pounds or less, whereas only about 11,000 trucks are in the over 30,000 pound group. It was therefore necessary to ensure that each weight group contained a sufficient number of vehicles to obtain reliable data for expansion purposes. The proportion selected by weight group strata varied from 5 per cent in the lowest weight group to about 35 per cent in the heaviest. This tended to improve reliability since the higher sample ratios are concentrated among the weight groups containing the largest vehicles, the smallest number of vehicles and the most diversified type of operations. By distributing the sample in this way an overall ten per cent ratio is made to represent approximately 25 per cent of the capacity of all the vehicles registered.

REVIEW OF SURVEY RESULTS

The statistical data obtained from these surveys have been divided into five parts or sections according to type of traffic. Section I contains estimates of the traffic performed by all Ontario registered trucks both within and outside the province. Section II presents estimates of traffic performed by all Ontario registered trucks within the boundaries of the province only. Section III provides data relating to the operations of Ontario registered trucks engaged in interprovincial and international traffic. Sections IV and V contain estimates of the traffic performed by Ontario registered buses, on the same basis as that shown in Sections I and II.

Excluding the vehicles which do not perform transportation services, the average number of trucks registered in Ontario during the twelve month period ending June 30, 1956 was 251,679. Of this number 55,879 or 22 per cent were farm trucks used mainly in the growing, servicing, and market activities of the farmer, 117,599 or 47 per cent were trucks used in urban operations, primarily within city or town limits; 66,185 or 26 per cent were private trucks owned and operated by business organizations to transport their own goods; and 12,016 or 5 per cent were common or for hire carriers.

It is emphasized that these average truck population figures were not used to expand the results of the four quarterly surveys. In view of the fact that the truck population varies from day to day throughout the year, the results of each individual survey were expanded to represent the truck population as at the time the survey was conducted. The total truck population was determined by multiplying the number of trucks in each weight group selected in the sample by the inverse of the sample selection ratio. For example, trucks in the 7-1/2 to 10 ton group were selected in the ratio of 1 in 24. The total population was thus determined by multiplying the number of trucks selected in the sample by 24.

In the tables presented herein, blanks appear in a number of places. This is due to the fact that no vehicles for these particular weight classifications were selected in any of the four samples which were drawn. It does not necessarily follow that there are no vehicles belonging to these weight classifications in operation in the province.

Section I: The total number of miles travelled by all trucks registered in the province during the year ending June 30, 1956 amounted to 2,083 million miles of which 301 million miles or 14 per cent were accumulated by for hire carriers and 800 million or 38 per cent by private intercity trucks. On the average, trucks registered in the province travelled 8,300 miles during the year, 52.8 per cent of which were travelled with goods aboard and 47.2 per cent empty. The average distance each ton of goods was carried was 31.3 miles. For hire trucks travelled an average of 25,100 miles during the period as compared with an average of 12,100 miles for private intercity vehicles and carried goods

73.4 per cent of the time as against 51.4 per cent for private trucks. The distance each ton of goods was carried by for hire vehicles averaged 54.8 miles and by private trucks 43.8 miles.

The amount of fuel consumed by Ontario registered trucks totalled 208.4 million imperial gallons of gasoline and 7.3 million gallons of diesel oil. As there were a small number of diesel trucks included in the survey, the estimate of the amount of diesel oil consumption is not a very reliable one and should, therefore, be used with caution. Miles per gallon of gasoline varied from 6.0 for the common carriers to 14.4 for farm vehicles. The average for all gasoline trucks amounted to 9.8 miles per gallon, and for diesel trucks 6.5 miles per gallon.

The total volume of goods transported by all trucks registered in Ontario intraprovincially, interprovincially, internationally and extraprovincially (traffic performed entirely outside the province) amounted to 142.4 million short tons. Farm vehicles carried 4.7 million tons or 3 per cent of the total; urban trucks transported 59 million tons or 42 per cent; private trucks 41.1 million tons or 29 per cent and for hire carriers transported 37.6 million tons or 26 per cent of the total volume. Ton miles performed aggregated 4,453 million, an average of 17,700 ton miles per vehicle. Although for hire carriers transported only 26 per cent of the total amount of goods carried, the distance travelled was considerably greater than the three other classes of vehicles with the result that the ton mile performance by for hire trucks averaged 171,600 as compared with 27,200 ton miles for private vehicles and 4,400 ton miles for urban trucks. The average weight of goods carried per one-way trip was 4.1 tons, varying from a low of 1 ton for farm trucks to 9.5 tons for common carriers. The average weight of goods carried per one-way trip as shown in this report is not comparable to the average load produced in the report for the Province of Manitoba. The average weight of goods carried was obtained by dividing the ton miles by the number of miles travelled with a load. The average load, however, was obtained by dividing ton miles by the total number of miles travelled.

Total capacity ton miles, which was based on the actual mileage travelled during the year, amounted to 9,812 million ton miles, an average of 39,000 capacity ton miles per vehicle. Using this estimate of capacity, the percentage of capacity utilized was 45.4 per cent for all trucks and 53.4 per cent for the for hire group. Gross ton miles aggregated 11,366 million ton miles, an average of 45,200 gross ton miles per vehicle.

The total amount of revenue received by common or for hire carriers for all types of service amounted to \$144 million dollars or \$12,000 per vehicle. Revenue per ton mile was 7.0 cents whereas revenue per total mile, which was obtained by dividing total revenue by the total number of miles travelled, amounted to 47.9 cents.

Section II: This series presents the total amount of traffic performed by Ontario registered trucks within the boundaries of the province. In addition to the intraprovincial traffic, it includes that portion of interprovincial and international traffic which was performed on Ontario streets and highways.

The total number of miles travelled by Ontario trucks within the province amounted to 2,022 million as compared with the grand total of 2,083 million miles travelled both within and outside the province. The yearly mileage per truck averaged 8,000 miles as against 8,300. Gasoline consumption within the province totalled 201 million gallons. Gasoline trucks thus averaged 9.9 miles per gallon.

The total volume of goods carried in Ontario amounted to 140 million tons. Ton miles totalled 3,983 million as compared with 4,453 million within and outside the province; and average ton miles per vehicle dropped to 15,800 from 17,700. Similarly, the average weight carried per vehicle amounted to 3.8 tons as compared with 4.1 tons and the average distance each ton of goods was carried within the province was 28.5 miles as against 31.3 miles. Total gross ton miles amounted to 10,574 million or an average of 42,000 gross ton miles per vehicle.

Total revenue received by common carriers for the transportation of goods on Ontario streets and highways amounted to \$135 million, an average of \$11,200 per vehicle and 7.1 cents per ton mile.

Section III: This section presents some statistics on interprovincial and international traffic. Table 13 shows the total amount of goods transported out of Ontario to other Provinces and the United States as well as the volume of goods transported into Ontario from other Provinces and the United States. Of the total tonnage carried out of Ontario, 1,276,000 tons or 76 per cent were destined for Quebec; 261,000 tons or 16 per cent were transported to the United States and 89,000 tons or 5 per cent to Manitoba. The majority of the goods brought into Ontario originated in the same three areas.

Table 14 shows interprovincial and international traffic by gross vehicle weight groups and by class of carrier. Of total traffic amounting to 1,194 million ton miles, almost 60 per cent or 718 million ton miles were performed by for hire carriers and almost 72 per cent of total traffic was performed by trucks with gross vehicle weight of 50,000 pounds or over.

Commodities carried by vehicles engaged in interprovincial and international traffic are shown in table 15. The total weight of goods transported was 3.4 million tons, of which 2.1 million tons or 62 per cent was carried by for hire trucks. Revenues received amounted to 35.7 million dollars, an average rate of 5.0 cents per ton mile. Each ton of goods was transported an average distance of 348 miles. Manufactures and miscellaneous items totalled 1.5 million tons were the chief commodities

transported for which revenue of 24.3 million dollars was received. As the ton miles performed amounted to 478 million, the average rate per ton mile was 5.1 cents.

Private vehicles engaged in interprovincial and international service transported 1.4 million tons of goods, 824 thousand tons or 60 per cent of which were manufactures and miscellaneous items.

Section IV: The total number of passengers carried by intercity buses licensed in Ontario is estimated at 22.4 million. In transporting this number of passengers, buses travelled 32.5 million miles at an average of 27,000 miles per bus and the average distance each passenger was carried was 25.7 miles. The total number of passenger miles performed was 575 million and, for each mile travelled, buses carried an average of 18 passengers. Capacity seat miles performed amounted to 1,153 million indicating that on the average capacity utilized was 49.9 per cent.

In travelling this number of miles, buses used 2.9 million imperial gallons of gasoline and 1.8 million gallons of diesel oil. Gasoline engined buses averaged 6.6 miles per gallon and those using diesel oil 7.5 miles per gallon.

Total revenues received for the transportation of passengers amounted to 13 million dollars, an average of \$11,000 per bus, 41.3 cents per total mile or 2.3 cents per passenger mile.

Section V: Within the provincial boundaries of Ontario, buses travelled a distance of 21 million miles using 1.6 million gallons of gasoline and 1.2 million gallons of diesel oil. Estimated passenger miles performed totalled 376 million and per cent capacity utilized was 51.8 per cent. Revenues collected for mileage travelled in Ontario amounted to 8.3 million dollars, an average of \$7,000 per bus at the rate of 2.2 cents per passenger mile.

Appendix: The appendix to this report provides an analysis of and the degree of response obtained by the use of the random sample system of collecting Motor Transport Traffic Statistics. For the four quarterly sample surveys conducted in the province over the twelve month period ending June 30, 1956 questionnaires were sent to the owners or operators of 27,985 trucks. Of this total 6,828 were returned with the questions unanswered due to the fact that the vehicles concerned were not operated during the specified week for a number of reasons such as "being repaired", and "operator ill". These questionnaires are, however, considered to be equivalent to being completed returns as allowance for the average number of vehicles not in operation during the year must be made when expanding the survey results to obtain estimates of the total amount of traffic performed by all registered vehicles in the province. In view of this, the total number of satisfactory or completed questionnaires totalled 21,951 or 78.4 per cent of the total sent. In addition, 3,453 questionnaires were returned but they were incompletely filled out and therefore unusable.

**Section I. Motor Truck Traffic Performed by Ontario Registered Trucks Inside and Outside the Province
July 1 - 1955 - June 30 - 1956**

TABLE 1. Total Miles Travelled

Type of operation ¹	Gross vehicle weight groups						
	0-2½ tons 0-5,000 lbs	2½-5 tons 5,001-10,000 lbs	5-7½ tons 10,001-15,000 lbs	7½-10 tons 15,001-20,000 lbs	10-15 tons 20,001-30,000 lbs	Over 15 tons 30,001 lbs and over	Total
Total mileage travelled							
000's							
Farm	172,740	43,185	5,683	9,206	2,933	279	234,026
Urban	430,027	157,850	36,908	55,455	43,378	23,449	747,037
Private	345,389	109,081	25,137	86,338	104,678	129,769	800,392
For hire	474	5,925	7,099	34,783	69,261	183,545	301,087
Total	948,630	316,041	74,827	185,782	220,250	337,012	2,082,542
Average yearly mileage per truck							
Farm	4,200	3,806	4,000	6,800	8,100	20,000	4,200
Urban	6,200	5,800	5,500	7,300	10,100	9,500	6,400
Private	9,400	10,000	8,300	13,900	18,800	33,500	12,100
For hire	12,500	11,400	13,200	12,800	18,300	41,500	25,100
Total	6,400	6,300	6,400	10,400	15,700	31,300	8,300
Percentage of total mileage travelled empty							
Farm	75.4	58.7	43.5	44.7	44.6	39.8	69.9
Urban	57.5	31.6	25.0	33.4	41.1	35.2	47.0
Private	66.3	43.8	35.2	34.8	37.7	26.6	48.6
For hire	34.8	43.7	32.1	34.6	39.2	19.6	26.6
Total	63.9	39.8	30.5	34.8	38.9	23.4	47.2
Average journey (Average distance each ton of goods was carried)							
Farm	9.3	14.2	15.5	20.7	22.6	31.2	14.7
Urban	14.5	11.4	11.0	8.6	6.7	8.9	8.8
Private	29.5	31.8	18.3	25.6	28.4	73.0	43.8
For hire	12.9	16.5	26.1	13.8	17.9	109.7	54.8
Total	16.7	16.2	14.8	15.1	16.2	66.3	31.3

1. Farm trucks - owned and operated by farmers primarily to transport farm produce and farm supplies. Urban trucks - operated primarily within urban areas. Private trucks - owned and operated on intercity routes by business and industry to transport their own raw materials, finished goods and merchandise. For hire trucks - public commercial vehicles operating anywhere in the province according to license.

**Section I. Motor Truck Traffic Performed by Ontario Registered Trucks Inside and Outside the Province
July 1 - 1955 - June 30 - 1956**

TABLE 2. Total Fuel Consumption

Type of Operation	Gross vehicle weight groups						
	0-2½ tons	2½-5 tons	5-7½ tons	7½-10 tons	10-15 tons	Over 15 tons	Total
Total gallons of gasoline consumed							
000's							
Farm	10,871	3,353	616	1,027	372	44	16,283
Urban	29,982	14,010	4,027	7,145	6,612	4,882	66,658
Private	23,124	9,067	2,599	10,138	13,860	21,260	80,048
For hire	31	561	768	4,397	9,509	30,139	45,405
Total	64,008	26,991	8,010	22,707	30,333	56,325	208,394
Total gallons of diesel oil consumed							
000's							
Farm	-	-	-	-	-	-	-
Urban	-	-	-	-	-	-	-
Private	-	20	-	-	1,198	1,493	2,711
For hire	-	-	-	-	488	4,056	4,544
Total	-	20	-	-	1,686	5,549	7,255

**Section I. Motor Truck Traffic Performed by Ontario Registered Trucks Inside and Outside the Province
July 1 - 1955 - June 30 - 1956**

TABLE 2. Total Fuel Consumption - Concluded

Type of operation	Gross vehicle weight groups						
	0-2½ tons	2½-5 tons	5-7½ tons	7½-10 tons	10-15 tons	Over 15 tons	Total
Miles per gallon of gasoline							
Farm	15.9	12.9	9.2	9.0	7.9	6.4	14.4
Urban	14.3	11.3	9.2	7.8	6.6	4.8	11.2
Private	14.9	12.0	9.7	8.5	7.0	5.7	9.8
For hire	15.5	10.6	9.2	7.9	7.0	5.2	6.0
Total	14.8	11.7	9.3	8.2	6.9	5.3	9.8
Miles per gallon of diesel oil							
Farm	—	—	—	—	—	—	—
Urban	—	—	—	—	—	—	—
Private	—	15.2	—	—	6.6	6.4	6.6
For hire	—	—	—	—	6.1	6.6	6.5
Total	—	15.2	—	—	6.5	6.5	6.5

**Section I. Motor Truck Traffic Performed by Ontario Registered Trucks Inside and Outside the Province
July 1 - 1955 - June 30 - 1956**

TABLE 3. Total Goods Carried and Ton Miles Performed

Type of operation	Gross vehicle weight groups						
	0-2½ tons	2½-5 tons	5-7½ tons	7½-10 tons	10-15 tons	Over 15 tons	Total
Total tons of goods carried							
000's							
Farm	1,618	1,263	463	922	373	29	4,668
Urban	2,732	7,227	4,122	11,878	19,726	13,293	58,978
Private	1,413	2,397	1,608	7,600	13,229	14,861	41,108
For hire	5	257	884	6,379	14,784	15,338	37,647
Total	5,768	11,144	7,077	26,779	48,112	43,521	142,401
Total ton miles performed							
000's							
Farm	15,066	17,888	7,165	19,074	8,452	898	68,543
Urban	39,640	82,157	45,145	102,417	131,698	118,796	519,853
Private	41,687	76,318	29,459	194,277	375,123	1,085,304	1,802,168
For hire	65	4,229	23,074	88,044	264,513	1,682,052	2,061,977
Total	96,458	180,592	104,843	403,812	779,786	2,887,050	4,452,541
Average ton miles per truck							
Farm	400	1,600	5,100	14,000	23,300	64,200	1,200
Urban	600	3,000	6,800	13,500	30,500	48,200	4,400
Private	1100	7,000	9,700	31,400	67,400	280,600	27,200
For hire	1,700	8,100	43,000	32,500	69,700	380,600	171,600
Total	700	3,600	9,000	22,700	55,600	268,200	17,700
Average weight carried (Average weight of goods carried per one-way trip) ¹							
Farm .....	.4	1.0	2.2	3.7	5.2	5.3	1.0
Urban .....	.2	.8	1.6	2.8	5.2	7.8	1.3
Private .....	.4	1.3	1.8	3.5	6.0	12.0	4.5
For hire .....	.2	1.3	4.8	3.9	6.4	11.5	9.5
Total .....	.3	1.0	2.0	3.4	5.9	11.5	4.1

1. Excludes vehicles making trips empty.

**Section 1. Motor Truck Traffic Performed by Ontario Registered Trucks Inside and Outside the Province
July 1, 1955 - June 30, 1956**

TABLE 4. Total Truck Capacity¹

Type of operation	Gross vehicle weight groups						
	0-2½ tons	2½-5 tons	5-7½ tons	7½-10 tons	10-15 tons	over 15 tons	Total
Total capacity ton miles							
	000's						
Farm	138,045	71,974	19,280	51,485	22,856	3,670	307,310
Urban	409,999	271,074	124,556	276,504	309,812	303,024	1,694,969
Private	287,217	177,391	81,894	464,195	791,913	2,145,613	3,948,223
For hire	486	11,595	43,144	208,849	543,035	3,054,447	3,861,556
Total	835,747	532,034	268,874	1,001,033	1,667,616	5,506,754	9,812,058
Capacity ton miles per truck							
Farm	3,300	6,300	13,700	37,800	63,000	262,100	5,500
Urban	5,900	9,900	18,700	36,500	71,800	122,900	14,400
Private	7,800	16,300	27,000	75,000	142,400	554,700	59,700
For hire	12,800	22,300	80,500	77,100	143,200	691,200	321,400
Total	5,700	10,600	23,100	56,100	118,800	511,500	39,000
Percentage of capacity utilized							
Farm	10.9	24.9	37.2	37.0	37.0	24.5	22.3
Urban	9.7	30.3	36.2	37.0	42.5	39.2	30.7
Private	14.5	43.0	36.0	41.9	47.4	50.6	45.6
For hire	13.3	36.5	53.5	42.2	48.7	55.1	53.4
Total	11.5	33.9	39.0	40.3	46.8	52.4	45.4

1. Capacity ton miles was determined by multiplying the actual total number of miles travelled by the difference between gross vehicle weight and estimated tare weight.

**Section 1. Motor Truck Traffic Performed by Ontario Registered Trucks Inside and Outside the Province
July 1, 1955 - June 30, 1956**

TABLE 5. Total Gross Ton Miles Performed¹

Type of operation	Gross vehicle weight groups						
	0-2½ tons	2½-5 tons	5-7½ tons	7½-10 tons	10-15 tons	over 15 tons	Total
Total gross ton miles							
	000's						
Farm	281,115	112,364	25,296	54,786	21,453	2,839	497,853
Urban	662,732	412,449	165,864	329,047	344,316	298,841	2,213,249
Private	590,619	317,970	116,675	541,971	866,930	2,156,564	4,590,729
For hire	847	19,400	45,365	230,718	576,914	3,190,719	4,063,963
Total	1,535,313	862,183	353,200	1,156,522	1,809,613	5,648,963	11,365,794
Average gross ton miles per truck							
Farm	6,800	9,800	18,000	40,300	59,100	202,800	8,900
Urban	9,600	15,000	24,900	43,500	79,800	121,200	18,800
Private	16,100	29,200	38,600	87,500	155,800	557,500	69,400
For hire	22,300	37,200	84,600	85,200	152,100	722,000	338,200
Total	10,400	17,200	30,400	64,900	128,900	524,700	45,200

1. Gross ton miles performed is determined by adding to the total ton miles performed the weight of vehicle empty (tare) multiplied by total mileage travelled.

**Section 1. Motor Truck Traffic Performed by Ontario Registered Trucks Inside and Outside the Province
July 1, 1955 - June 30, 1956**

TABLE 6. Total Revenue from Operations Performed by For Hire Carriers

Type of operation	Gross vehicle weight groups						
	0-2½ tons	2½-5 tons	5-7½ tons	7½-10 tons	10-15 tons	over 15 tons	Total
Total revenue	\$ 73,000	1,507,000	2,626,000	11,091,000	20,287,000	108,608,000	144,192,000
Revenue per ton mile	112.4	35.8	11.4	12.6	7.7	6.5	7.0
Revenue per mile (total mileage travelled)	15.3	25.4	37.0	31.9	29.3	59.2	47.9
Average yearly revenue per truck	\$ 1,900	2,900	4,900	4,100	5,300	24,600	12,000

**Section II. Motor Truck Traffic Performed by Ontario Registered Trucks Within the Province
July 1, 1955-June 30, 1956**

TABLE 7. Miles Travelled Within the Province

Type of operation	Gross vehicle weight groups						
	0-2½ tons 0-5000 lbs.	2½-5 tons 5001-10,000 lbs.	5-7½ tons 10,001-15,000 lbs.	7½-10 tons 15,001-20,000 lbs.	10-15 tons 20,001-30,000 lbs.	Over 15 tons 30,001 lbs. and over	Total
Total mileage travelled							
000's							
Farm	172,740	43,185	5,683	9,206	2,933	279	234,026
Urban	430,027	157,850	36,908	55,455	43,378	23,419	747,037
Private	339,842	106,137	24,493	83,147	97,501	105,480	756,600
For hire	474	5,925	7,099	34,021	67,946	168,633	284,098
Total	943,083	313,097	74,183	181,829	211,758	297,811	2,021,761
Average yearly mileage per truck							
Farm	4,200	3,800	4,000	6,800	8,100	20,000	4,200
Urban	6,200	5,800	5,500	7,300	10,100	9,500	6,400
Private	9,300	9,800	8,100	13,400	17,500	27,300	11,400
For hire	12,500	11,400	13,200	12,600	17,900	38,200	23,600
Total	6,400	6,200	6,400	10,200	15,100	27,700	8,000
Percentage of total mileage travelled empty							
Farm	75.4	58.7	43.5	44.7	44.6	39.8	69.9
Urban	57.5	31.6	25.0	33.4	41.1	35.2	47.0
Private	67.1	45.0	36.1	36.1	40.5	32.7	51.4
For hire	34.8	43.7	32.1	35.3	40.0	21.4	28.2
Total	64.3	40.1	30.8	35.6	40.5	26.5	48.7
Average journey (Average distance each ton of goods was carried)							
Farm	9.3	14.2	15.5	20.7	22.6	31.2	14.7
Urban	14.5	11.4	11.0	8.6	6.7	8.9	8.8
Private	28.9	28.1	17.9	24.8	25.7	61.4	38.0
For hire	12.9	16.5	26.1	13.5	17.5	105.1	51.5
Total	16.6	15.4	14.7	14.8	15.3	59.7	28.5

**Section II. Motor Truck Traffic Performed by Ontario Registered Trucks Within the Province
July 1, 1955-June 30, 1956**

TABLE 8. Fuel Consumption Within the Province

Type of operation	Gross vehicle weight groups						
	0-2½ tons	2½-5 tons	5-7½ tons	7½-10 tons	10-15 tons	Over 15 tons	Total
Total gallons of gasoline consumed							
000's							
Farm	10,871	3,353	616	1,027	372	44	16,283
Urban	29,982	14,010	4,027	7,145	6,612	4,882	66,658
Private	22,757	8,649	2,534	9,769	12,785	18,168	74,662
For hire	31	561	768	4,253	9,369	28,526	43,508
Total	63,641	26,573	7,945	22,194	29,138	51,620	201,111
Total gallons of diesel oil consumed							
000's							
Farm	—	—	—	—	—	—	—
Urban	—	—	—	—	—	—	—
Private	—	20	—	—	92	1,357	1,469
For hire	—	—	—	—	28	2,933	2,961
Total	—	20	—	—	120	4,290	4,430

**Section II. Motor Truck Traffic Performed by Ontario Registered Trucks Within the Province
July 1, 1955-June 30, 1956**

TABLE 8. Fuel Consumption Within the Province—Concluded

Type of operation	Gross vehicle weight groups						
	0-2½ tons	2½-5 tons	5-7½ tons	7½-10 tons	10-15 tons	Over 15 tons	Total
Miles per gallon of gasoline							
Farm.....	15.9	12.9	9.2	9.0	7.9	6.4	14.4
Urban.....	14.3	11.3	9.2	7.8	6.6	4.8	11.2
Private.....	14.9	12.2	9.7	8.5	7.6	5.3	10.1
For hire.....	15.5	10.6	9.2	8.0	7.2	5.2	6.1
Total.....	14.8	11.8	9.3	8.2	7.2	5.2	9.9
Miles per gallon of diesel oil							
Farm.....	—	—	—	—	—	—	—
Urban.....	—	—	—	—	—	—	—
Private.....	—	15.2	—	—	6.1	6.7	6.8
For hire.....	—	—	—	—	6.0	6.6	6.6
Total.....	—	15.2	—	—	6.1	6.6	6.7

**Section II. Motor Truck Traffic Performed by Ontario Registered Trucks Within the Province
July 1, 1955-June 30, 1956**

TABLE 9. Goods Carried and Ton Miles Performed Within the Province

Type of operation	Gross vehicle weight groups						
	0-2½ tons	2½-5 tons	5-7½ tons	7½-10 tons	10-15 tons	Over 15 tons	Total
Total tons of goods carried							
000's							
Farm.....	1,618	1,263	463	922	373	29	4,668
Urban.....	2,732	7,227	4,122	11,878	19,726	13,293	58,978
Private.....	1,408	2,363	1,576	7,515	12,979	13,963	39,804
For hire.....	5	257	884	6,273	14,730	14,395	36,544
Total.....	5,763	11,110	7,045	26,588	47,808	41,680	139,994
Total ton miles performed							
000's							
Farm.....	15,066	17,888	7,165	19,074	8,452	898	68,543
Urban.....	39,640	82,157	45,145	102,417	131,698	118,796	519,853
Private.....	40,660	66,361	28,202	186,230	333,352	857,000	1,511,805
For hire.....	65	4,229	23,074	84,854	258,331	1,512,623	1,883,176
Total.....	95,431	170,635	103,586	392,575	731,833	2,489,317	3,983,377
Average ton miles per truck							
Farm.....	400	1,600	5,100	14,000	23,300	64,200	1,200
Urban.....	600	3,000	6,800	13,500	30,500	48,200	4,400
Private.....	1,100	6,100	9,300	30,000	59,900	221,600	22,800
For hire.....	1,700	8,100	43,000	31,300	68,100	342,300	156,700
Total.....	600	3,400	8,900	22,000	52,100	231,200	15,800
Average weight carried (Average weight of goods carried per one-way trip) ¹							
Farm.....	.4	1.0	2.2	3.7	5.2	5.3	1.0
Urban.....	.2	.8	1.6	2.8	5.2	7.8	1.3
Private.....	.4	1.1	1.8	3.5	5.7	12.1	4.1
For hire.....	.2	1.3	4.8	3.9	6.3	11.4	9.2
Total.....	.3	.9	2.0	3.4	5.8	11.4	3.8

1. Excludes vehicles making trips empty.

Section II. Motor Truck Traffic Performed by Ontario Registered Trucks Within the Province
July 1, 1955 - June 30, 1956

TABLE 10. Truck Capacity Within the Province¹

Type of operation	Gross vehicle weight grounds						
	0-2½ tons	2½-5 tons	5-7½ tons	7½-10 tons	10-15 tons	over 15 tons	Total
	Total capacity ton miles						
	000's						
Farm	138,045	71,974	19,280	51,485	22,856	3,670	307,310
Urban	409,999	271,074	124,556	276,504	309,812	303,024	1,694,969
Private	282,934	172,233	79,744	447,096	732,997	1,773,690	3,488,694
For hire	486	11,595	43,144	197,922	533,207	2,803,743	3,590,097
Total	831,464	526,876	266,724	973,007	1,598,872	4,884,127	9,081,070
	Capacity ton miles per truck						
Farm	3,300	6,300	13,700	37,800	63,000	262,100	5,500
Urban	5,900	9,900	18,700	36,500	71,800	122,900	14,400
Private	7,700	15,800	26,400	72,200	131,800	458,600	54,700
For hire	12,800	22,300	80,500	73,100	140,600	634,500	298,800
Total	5,700	10,500	22,900	54,600	113,900	453,700	36,100
	Percentage of capacity utilized						
Farm	10.9	24.9	37.2	37.0	37.0	24.5	22.3
Urban	9.7	30.3	36.2	37.0	42.5	39.2	30.7
Private	14.4	38.5	35.4	41.6	45.5	48.3	43.3
For hire	13.3	36.5	53.5	42.9	48.4	54.0	52.5
Total	11.5	32.4	38.8	40.3	45.8	51.0	43.8

1. Capacity ton miles was determined by multiplying the actual total number of miles travelled by the difference between gross vehicle weight and estimated tare weight.

Section II. Motor Truck Traffic Performed by Ontario Registered Trucks Within the Province
July 1, 1955 - June 30, 1956

TABLE 11. Gross Ton Miles Performed Within the Province¹

Type of operation	Gross Vehicle Weight Groups						
	0-2½ tons	2½-5 tons	5-7½ tons	7½-10 tons	10-15 tons	over 15 tons	Total
	Total gross ton miles						
	000's						
Farm	281,115	112,364	25,296	54,786	21,453	2,839	497,853
Urban	662,732	412,449	165,864	329,047	344,316	298,841	2,213,249
Private	580,233	300,108	113,174	595,207	788,073	1,740,113	4,116,908
For hire	847	19,400	45,365	221,972	564,371	2,893,568	3,745,523
Total	524,927	844,321	349,699	1,201,012	1,718,213	4,935,361	10,573,533
	Average gross ton miles per truck						
Farm	6,800	9,800	18,000	40,300	59,100	202,800	8,900
Urban	9,600	15,000	24,900	43,500	79,800	121,200	18,800
Private	15,800	27,600	37,400	96,100	141,700	449,900	62,200
For hire	22,300	37,200	84,600	81,900	148,800	654,800	311,700
Total	10,400	16,800	30,100	67,400	122,400	458,400	42,000

1. Gross ton miles performed is determined by adding to the total ton miles performed the weight of vehicle empty (tare) multiplied by total mileage travelled.

Section II. Motor Truck Traffic Performed by Ontario Registered Trucks Within the Province
July 1, 1955 - June 30, 1956

TABLE 12. Revenue From Operations Performed by For Hire Carriers Within the Province

Type of operation	Gross vehicle weight groups						
	0-2½ tons	2½-5 tons	5-7½ tons	7½-10 tons	10-15 tons	over 15 tons	Total
Total revenue	\$ 73,000	1,507,000	2,626,000	10,736,000	19,763,000	99,876,000	134,581,000
Revenue per ton mile	¢ 112.4	35.6	11.4	12.7	7.7	6.6	7.1
Revenue per mile (total mileage travelled) ¢	15.3	25.4	37.0	31.6	29.1	59.2	47.4
Average yearly revenue per truck	\$ 1,900	2,900	4,900	4,000	5,200	22,600	11,200

Section III. Motor Truck Traffic Performed by Ontario Registered Trucks Engaged in Interprovincial and International Traffic

TABLE 13. Total Tons of Goods Carried Into and Out of Ontario, by Origin, and Destination, by Type of Operation

Origin or destination	For hire trucks	Private trucks	All trucks
	'000 tons	'000 tons	'000 tons
To New Brunswick	6	3	9
From New Brunswick	3	3	6
To Nova Scotia	—	1	1
To Quebec	944	332	1,276
From Quebec	740	350	1,090
To Manitoba	25	64	89
From Manitoba	41	55	96
To Saskatchewan	3	5	8
From Saskatchewan	—	3	3
To Alberta	11	11	22
From Alberta	3	10	13
To British Columbia	7	3	10
From British Columbia	7	3	10
To United States	108	153	261
From United States	168	387	555
Grand total..... To	1,104	572	1,676
From	962	811	1,773
	2,066	1,383	3,449

Section III. Motor Truck Traffic Performed by Ontario Registered Trucks Engaged in Interprovincial and International Traffic

TABLE 14. Interprovincial and International Traffic by Gross Vehicle Weight Groups

Gross vehicle weight	For hire trucks			
	Total miles travelled with load	Total ton miles	Average weight carried	Average distance per trip
	'000	'000	tons	miles
Under 20,000 lbs.	49	172	4	80
20,001 - 25,000 lbs.	927	7,820	8	195
25,001 - 30,000 "	223	1,099	5	110
30,001 - 35,000 "	219	1,079	5	159
35,001 - 40,000 "	8,340	60,014	7	326
40,001 - 45,000 "	7,389	76,312	10	239
45,001 - 50,000 "	3,080	40,824	13	300
50,001 and over	37,552	530,513	14	307
Total	57,779	717,833	12	290
	Private trucks			
	'000	'000	tons	miles
Under 20,000 lbs.	2,825	10,412	4	87
20,001 - 25,000 lbs.	2,611	15,334	6	128
25,001 - 30,000 "	1,956	17,910	9	167
30,001 - 35,000 "	1,086	7,561	7	448
35,001 - 40,000 "	4,752	36,417	8	448
40,001 - 45,000 "	4,906	49,590	10	372
45,001 - 50,000 "	1,078	12,337	11	211
50,001 and over	22,132	326,358	15	357
Total	41,346	475,919	12	252

Section III. Motor Truck Traffic Performed by Ontario Registered Trucks Engaged in Interprovincial and International Traffic

TABLE 15. Commodities Carried by Ontario Registered Trucks in Interprovincial and International Traffic

Commodity classification	For hire trucks						
	Weight of goods carried	Total miles travelled with load	Total ton miles	Average weight carried	Average distance per ton	Total revenue	Revenue per ton mile
	'000 tons	'000	'000	tons	miles	'000\$	¢
Agricultural products	33	703	5,766	8	175	312	5.41
Animal and animal products.....	86	4,751	51,566	11	600	2,140	4.15
Mine products.....	19	44	188	4	10	11	5.85
Forest products	30	365	5,042	14	168	179	3.55
Manufacturing and miscellaneous	1,469	40,714	478,068	12	325	24,319	5.09
N.O.S. general freight.....	429	11,202	177,203	16	413	8,707	4.91
Total	2,066	57,779	717,833	12	347	35,668	4.97
	Private trucks						
	Weight of goods carried	Total miles travelled with load	Total ton miles	Average weight carried	Average distance per ton		
	'000 tons	'000	'000	tons	miles		
Agricultural products	92	4,670	52,599	11	572		
Animal and animal products.....	70	4,282	47,669	11	681		
Mine products.....	9	255	3,556	14	395		
Forest products	39	808	5,462	7	140		
Manufacturing and miscellaneous	824	23,009	229,092	10	278		
N.O.S. general freight.....	349	8,322	137,541	17	394		
Total	1,383	41,346	475,919	12	344		

Section IV. Motor Bus Traffic Performed by Ontario Registered Buses Inside and Outside the Province
July 1, 1955 - June 30, 1956

TABLE 16. Mileage, Fuel, Passengers and Passenger Miles, Capacity and Revenue

	Passenger Seating Capacity				
	0-19	20-29	30-39	40 and over	Total
Mileage:					
Total mileage travelled	1,770,000	5,636,000	16,328,000	8,762,000	32,496,000
Average yearly mileage per bus	20,100	17,800	28,000	43,800	27,400
Average journey (average distance per passenger)	20.4	19.9	28.4	24.5	25.7
Fuel:					
Total gallons of gasoline consumed.....	131,000	861,000	1,325,000	559,000	2,876,000
Total gallons of diesel oil consumed.....	—	46,000	990,000	756,000	1,792,000
Miles per gallon of gasoline	13.5	6.1	6.5	5.8	6.6
Miles per gallon of diesel oil	—	9.1	7.8	7.3	7.5
Passengers and passenger miles:					
Total number of passengers carried	215,000	3,386,000	11,343,000	7,412,000	22,356,000
Total number of passenger miles	4,394,000	67,335,000	321,957,000	181,280,000	574,966,000
Average number of passengers carried per mile	2.5	11.9	19.7	20.7	17.7
Capacity:					
Total capacity seat miles	13,803,000	161,698,000	592,587,000	384,811,000	1,152,899,000
Percentage of capacity utilized	31.8	41.6	54.3	47.1	49.9
Revenue:					
Total passenger revenue	\$ 275,000	1,553,000	6,956,000	4,648,000	13,432,000
Revenue per mile (total mileage travelled)	¢ 15.5	27.6	42.6	53.0	41.3
Revenue per passenger mile	¢ 6.3	2.3	2.2	2.6	2.3
Revenue per bus	\$ 3,100	4,900	11,900	23,200	11,300

Section V. Motor Bus Traffic Performed by Ontario Registered Buses Within the Province
July 1, 1955 — June 30, 1956

TABLE 17. Mileage, Fuel, Passengers and Passenger Miles, Capacity and Revenue

	Passenger seating capacity				
	0-19	20-29	30-39	40 and over	Total
Mileage:					
Total mileage travelled	1,770,000	3,310,000	10,416,000	5,532,000	21,028,000
Average yearly mileage per bus	20,100	10,500	17,800	27,700	17,700
Average journey (average distance per passenger)	20.4	21.5	40.9	27.4	32.5
Fuel:					
Total gallons of gasoline consumed.....	131,000	482,000	713,000	307,000	1,633,000
Total gallons of diesel oil consumed.....	—	38,000	723,000	507,000	1,268,000
Miles per gallon of gasoline.....	13.5	6.2	6.8	5.9	7.1
Miles per gallon of diesel oil	—	9.1	7.7	7.4	7.5
Passenger and Passenger Miles:					
Total number of passengers carried	215,000	1,848,000	5,294,000	4,192,000	11,549,000
Total number of passenger miles	4,394,000	39,654,000	216,685,000	114,874,000	375,607,000
Average number of passengers carried per mile	2.5	12.0	20.8	20.8	17.9
Capacity:					
Total capacity seat miles	13,803,000	94,466,000	378,958,000	238,571,000	725,798,000
Percentage of capacity utilized	31.8	42.2	57.2	48.2	51.8
Revenue:					
Total passenger revenue	\$ 275,000	900,000	4,364,000	2,769,000	8,308,000
Revenue per mile (total mileage travelled)	¢ 15.5	27.2	41.9	50.0	39.5
Revenue per passenger mile	¢ 6.3	2.3	2.0	2.4	2.2
Revenue per bus	\$ 3,100	2,800	7,500	13,800	7,000

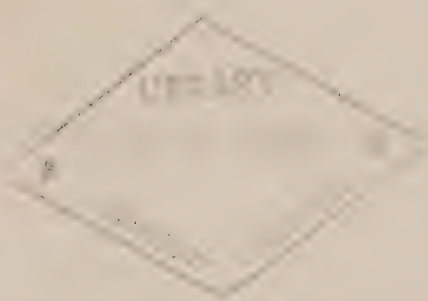
APPENDIX I
Sampling Results

Type of operation	Gross Vehicle Weight Groups						
	0-2½ tons 0-5,000 lbs.	2½-5 tons 5,001-10,000 lbs.	5-7½ tons 10,001-15,000 lbs.	7½-10 tons 15,001-20,000 lbs.	10-15 tons 20,001-30,000 lbs.	Over 15 tons 30,001 lbs. and over	Total
Estimated average Ontario truck population July-1-1955 - June-30-1956							
Farm	41,321	11,413	1,407	1,361	363	14	55,879
Urban	69,149	27,431	6,669	7,569	4,316	2,465	117,599
Private	36,658	10,878	3,025	6,193	5,563	3,868	66,185
For hire	38	521	536	2,709	3,793	4,419	12,016
Total	147,166	50,243	11,637	17,832	14,035	10,766	251,679
Total No. of trucks selected in samples							
Farm	2,238	1,240	246	279	126	6	4,135
Urban	3,764	2,984	1,154	1,540	1,520	866	11,828
Private	1,981	1,173	528	1,330	2,010	1,403	8,425
For hire	2	57	95	528	1,250	1,665	3,597
Total	7,985	5,454	2,023	3,677	4,906	3,940	27,985
No. of questionnaires returned complete							
Farm	1,233	644	121	164	66	4	2,232
Urban	2,068	1,534	554	891	799	486	6,332
Private	1,094	611	258	777	1,067	798	4,605
For hire	2	30	49	254	559	1,060	1,954
Total	4,397	2,819	982	2,086	2,491	2,348	15,123
No. of sampled trucks reported not in use during survey week							
Farm	437	344	83	68	34	1	967
Urban	745	848	412	382	405	206	2,998
Private	375	320	181	323	523	321	2,043
For hire	—	13	19	130	377	281	820
Total	1,557	1,525	695	903	1,339	809	6,828
No. of questionnaires returned incomplete and unusable							
Farm	358	142	22	26	13	—	561
Urban	602	343	102	149	159	80	1,435
Private	319	135	47	124	210	128	963
For hire	—	6	10	92	202	184	494
Total	1,279	626	181	391	584	392	3,453
No. of questionnaires not returned (non-respondents)							
Farm	210	110	20	21	13	1	375
Urban	349	259	86	118	157	94	1,063
Private	193	107	42	106	210	156	814
For hire	—	8	17	52	112	140	329
Total	752	484	165	297	492	391	2,581





CANADA



MOTOR TRANSPORT TRAFFIC STATISTICS
PROVINCE OF ONTARIO
1956

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INTRODUCTION

This report presents the results of the 1956 Motor Transport Traffic Survey conducted in the Province of Ontario at three month intervals during the period January 1, 1956 to December 31, 1956. The first report for this province provided similar statistics covering the period July 1, 1955 to June 30, 1956.

General Description of the Sample

An overall annual sample of approximately 10 per cent of all trucks and intercity buses registered in Ontario was selected for this survey. To allow for seasonal variations and to ensure that the sample vehicles represented current registrations in force, this annual survey was conducted on a quarterly basis with approximately 2½ per cent of total registrations sampled each quarter. Registrations selected were coded so that a particular vehicle would not be chosen more than once during each licence year. Each quarterly survey ran for a seven day period, Sunday through Saturday.

All trucks and buses registered in the province are represented except those vehicles not considered to be engaged in transportation services and buses utilized for scheduled urban transit services. Trailers as such were excluded from the sample, but details of tractor-trailer combinations were obtained by including the power units or tractors in the survey.

Review of Survey Results

Excluding vehicles which do not perform transportation services, the average number of trucks registered in Ontario during the twelve month period ending December 31st, 1956 was 256,209. Of this number 12,930 or 5 per cent were common or for hire carriers; 60,918 or 24 per cent were private intercity trucks owned and operated by business organizations to transport their own goods; 126,843 or 49 per cent were trucks used in urban operations; and 55,518 or 22 per cent were farm trucks used mainly in the growing, servicing and market activities of the farmer.

Blanks appear in a number of places in the following tables where no vehicles of certain weight classifications were selected in any of the four samples. It does not necessarily follow that there were no vehicles belonging to these classifications in operation in the province. Those cells marked with an asterisk in Appendix I (Number of Questionnaires Returned Completed) contain a relatively small sample of trucks and hence statistics appearing in such classes or cells throughout the report are not considered reliable.

Section I: The total number of miles travelled by all trucks registered in Ontario, intraprovincially, interprovincially, internationally and extraprovincially (traffic performed entirely outside the province) during the calendar year 1956 amounted to 2,168 million of which 331 million miles or 15 per cent were accumulated by for hire trucks and 761 million or 35 per cent by private intercity

These annual surveys have been made possible through the excellent co-operation received from the trucking industry and in particular from the officials of the Government of Ontario, in allowing the Dominion Bureau of Statistics access to the motor vehicle registration records from which samples of trucks and buses were selected each quarter.

Vehicles in the sample were stratified by gross vehicle weight groups and where possible by function or class of operation. The Ontario registration system does not register all vehicles on a functional basis, making it necessary to use completed questionnaires to classify privately operated vehicles in the sample into "intercity", "urban" and "farm". Since all intercity "for hire" vehicles are required to obtain a Public Commercial Vehicle permit in addition to the regular commercial licence, it was possible to separate these vehicles from the others. However, because urban for hire trucks cannot be distinguished from private, the operations of all urban trucks were included in the private urban category. As a result the data shown throughout this report as "for hire" is understated and that for "private urban" is overstated by the operations of urban for hire vehicles classified as private urban.

trucks. On the average, trucks registered in the province travelled 8,500 miles during the year and each ton of goods was transported an average distance of 29.6 miles. For hire trucks travelled an average of 25,600 miles during the period compared with an average of 12,500 miles for private intercity vehicles and carried goods 71 per cent of the time against 50 per cent for private intercity trucks. For hire and private intercity trucks carried each ton of goods an average distance of 53 and 41 miles respectively.

The amount of fuel consumed by Ontario registered trucks totalled 211.4 million imperial gallons of gasoline and 10.0 million gallons of diesel oil. As there were a small number of diesel trucks included in the survey, the estimate of diesel oil consumption is not very reliable and should therefore be used with caution. Miles per gallon of gasoline varied from 6.1 for the common carriers to 14.6 for farm trucks. The average for all gasoline trucks amounted to 9.9 miles per gallon and for diesel trucks, 6.6 miles per gallon.

The volume of goods transported by all trucks registered in the province totalled 160.3 million short tons. For hire trucks carried 43.4 million tons or 27.1 per cent of the total; private intercity trucks, 43.6 million tons or 27.2 per cent; private urban trucks, 69.3 million tons or 43.2 per cent; and farm trucks, 3.9 million tons or 2.5 per cent of the total volume. Ton miles performed aggregated 4,750 million, an average of 18,500 ton miles per vehicle.

Total capacity ton miles amounted to 10,717 million, an average of 41,800 capacity ton miles per vehicle. The percentage of capacity utilized by all trucks was 44.3 and by for hire trucks 52.2 per cent. Gross ton miles aggregated 12,292 million, an average of 48,000 gross ton miles per vehicle.

The total amount of revenue received by common or for hire carriers for all types of service amounted to 158 million dollars or 12,200 dollars per vehicle. Revenue per ton mile was 6.9 cents whereas revenue per total mile amounted to 47.8 cents.

Section II: Statistics on the total amount of traffic performed by Ontario registered trucks within the boundaries of the province are presented in this section. In addition to the intraprovincial traffic, it includes that portion of interprovincial and international traffic which was performed on Ontario streets and highways.

The total number of miles travelled by Ontario registered trucks within the province amounted to 2,111 million compared with the grand total of 2,168 million miles travelled both inside and outside the province. The yearly mileage per truck averaged 8,200 as against 8,500 miles.

The total volume of goods carried in Ontario amounted to 158.9 million tons. Ton miles totalled 4,230 million compared with 4,750 million inside and outside the province and average ton miles per vehicle equalled 16,500 as against 18,500 ton miles. The average weight carried per vehicle amounted to 4.0 tons compared with 4.3 tons while each ton of goods was carried an average distance of 26.6 miles within as against 29.6 miles inside and outside the province.

Total revenue received by common carriers for the transportation of goods on Ontario streets and highways amounted to 144 million dollars, an average of 11,100 dollars per vehicle and 7.1 cents per ton mile.

Section III: This section consists of statistics on interprovincial and international traffic performed by Ontario registered trucks. Table 13 shows the total amount of goods transported out of and into Ontario from other provinces and the United States while table 14 provides data on interprovincial and international traffic by gross vehicle weight groups and by class of carrier. Of total traffic amounting to 1,358 million ton miles, almost 60 per cent or 813 million ton miles were performed by for hire carriers.

Commodities carried by vehicles engaged in interprovincial and international traffic are shown in table 15. The total weight of goods transported

was 3.8 million tons, of which 2.2 million tons or 59 per cent was carried by for hire trucks. Revenue received amounted to 41.5 million dollars at an average rate of 5.1 cents per ton mile, with each ton of goods transported an average distance of 362 miles. Manufactures and miscellaneous items totalling 1.5 million tons were the chief commodities transported for which revenue of 26.6 million dollars was received. Manufactures and miscellaneous products ton miles performed amounted to 513 million and the average revenue per ton mile was 5.2 cents.

Private vehicles engaged in interprovincial and international service transported 1.5 million tons of goods, 834 thousand tons or 54 per cent of which were manufactures and miscellaneous items.

Section IV: The total number of passengers carried by intercity buses licensed in Ontario is estimated at 18.3 million. Buses travelled 27.6 million miles in 1956, an average of 25,100 miles per bus with passengers carried an average distance of 27 miles. The total number of passenger miles was 495 million or 51 per cent of 971 million capacity seat miles performed. For each mile travelled buses carried an average of 18 passengers. Buses used 2.8 million imperial gallons of gasoline and 1.7 million gallons of diesel oil with gasoline engined buses averaging 5.9 miles per gallon and those using diesel oil, 6.5 miles per gallon.

Total revenue received for the transportation of passengers amounted to 11.1 million dollars, an average of 10,100 dollars per bus, 40.2 cents per total mile or 2.2 cents per passenger mile.

Section V: Within the boundaries of Ontario buses travelled a distance of 26.5 million miles using 2.7 million gallons of gasoline and 1.6 million gallons of diesel oil. Estimated passenger miles performed totalled 471 million or 50.7 per cent of capacity seat miles. Revenue collected for mileage travelled in Ontario amounted to 10.5 million dollars, an average of 9,500 dollars per bus at the rate of 2.2 cents per passenger mile.

Appendix: The appendix to this report provides an analysis of the sampling response as well as the estimated average Ontario truck population for the year. Over the twelve month period ending December 31, 1956 survey questionnaires were sent to the owners or operators of 26,753 trucks. Of this total 14,642 were returned completed while 6,591 trucks were reported not in use during the survey week for a number of reasons such as "being repaired" and "operator ill". In addition, 3,271 questionnaires were returned but they were incompletely filled out and therefore unusable. Non response to the survey totalled 2,249 or 8 per cent.

Section I. Motor Truck Traffic Performed by Ontario Registered Trucks Inside and Outside the Province
January 1, 1956 – December 31, 1956

TABLE 1. Total Mileage Travelled

Type of operation ¹	Gross vehicle weight groups						
	0-2½ tons 0-5,000 lbs.	2½-5 tons 5,001-10,000 lbs.	5-7½ tons 10,001-15,000 lbs.	7½-10 tons 15,001-20,000 lbs.	10-15 tons 20,001-30,000 lbs.	Over 15 tons 30,001 lbs. and over	Total
For hire Private: Intercity Urban Farm Total	Total mileage travelled						
	'000						
	236	5,295	6,777	36,346	77,217	205,488	331,359
	317,867	99,453	26,511	79,336	107,804	129,949	760,920
	484,447	178,280	38,218	64,036	57,664	24,413	847,058
	175,082	37,313	5,785	7,292	3,223	57	228,752
	977,632	320,341	77,291	187,010	245,908	359,907	2,168,089
	Average yearly mileage per truck						
	6,600	10,100	11,200	12,700	18,600	43,300	25,600
	9,600	10,300	9,000	13,800	19,300	35,000	12,500
	6,400	6,300	5,500	7,800	11,600	9,900	6,700
	4,200	3,400	4,900	6,200	9,900	19,000	4,100
	6,500	6,500	6,600	10,400	16,300	32,900	8,500
	Average journey (Average distance each ton of goods was carried)						
	13.5	10.4	19.1	15.7	14.2	116.2	53.0
	17.6	21.0	21.4	23.3	24.8	76.4	41.3
	13.4	12.4	9.0	8.2	7.2	8.1	8.5
10.6	14.0	21.1	17.9	31.3	195.5	15.5	
14.2	14.6	13.6	14.1	13.8	68.8	29.6	
Percentage of total mileage travelled empty							
33.3	46.2	32.2	37.2	43.4	21.6	29.0	
66.8	45.7	39.2	39.5	43.2	29.0	50.4	
61.1	33.4	30.1	36.1	42.0	39.3	50.1	
73.1	59.1	42.8	43.8	41.1	32.4	68.6	
65.1	40.4	34.3	38.1	42.9	25.5	48.9	

1. For hire trucks — operated for compensation or gain anywhere in the province according to licence. Private — Intercity trucks — owned and operated on intercity routes by business, industry and individuals to transport their own raw materials, finished goods and merchandise. Private — Urban trucks — operated primarily within urban areas, including some for hire vehicles. Private — Farm trucks — owned and operated by farmers primarily to transport farm produce, farm supplies and for service purposes.

Section I. Motor Truck Traffic Performed by Ontario Registered Trucks Inside and Outside the Province
January 1, 1956 – December 31, 1956

TABLE 2. Total Fuel Consumption

Type of operation	Gross vehicle weight groups						
	0-2½ tons	2½-5 tons	5-7½ tons	7½-10 tons	10-15 tons	Over 15 tons	Total
	Total gallons of gasoline consumed						
	'000						
For hire	14	492	770	4,455	10,191	31,256	47,178
Private:							
Intercity	20,040	8,116	2,667	9,515	14,806	20,587	75,731
Urban	32,072	15,283	4,053	7,977	8,537	4,924	72,846
Farm	10,992	2,821	590	815	393	9	15,620
Total	63,118	26,712	8,080	22,762	33,927	56,776	211,375
	Total gallons of diesel oil consumed						
	'000						
For hire	—	—	—	—	24	6,535	6,559
Private:							
Intercity	—	—	—	—	171	3,283	3,454
Urban	—	—	—	—	2	33	35
Farm	—	—	—	—	—	—	—
Total	—	—	—	—	197	9,851	10,048

Section I. Motor Truck Traffic Performed by Ontario Registered Trucks Inside and Outside the Province
January 1, 1956 – December 31, 1956

TABLE 2. Total Fuel Consumption – Concluded

Type of operation	Gross vehicle weight groups						
	0-2½ tons	2½-5 tons	5-7½ tons	7½-10 tons	10-15 tons	Over 15 tons	Total
Miles per gallon of gasoline							
For hire	16.8	10.8	8.8	8.2	7.6	5.2	6.1
Private:							
Intercity	15.9	12.3	9.9	8.3	7.2	5.3	9.8
Urban	15.1	11.7	9.4	8.0	6.8	4.9	11.6
Farm	15.9	13.2	9.2	8.9	8.2	6.7	14.6
Total	15.5	12.0	9.6	8.2	7.2	5.2	9.9
Miles per gallon of diesel oil							
For hire	—	—	—	—	5.8	6.6	6.5
Private:							
Intercity	—	—	—	—	7.3	6.1	6.2
Urban	—	—	—	—	5.0	7.2	7.1
Farm	—	—	—	—	—	—	—
Total	—	—	—	—	7.1	6.5	6.6

Section I. Motor Truck Traffic Performed by Ontario Registered Trucks Inside and Outside the Province
January 1, 1956 – December 31, 1956

TABLE 3. Total Goods Carried and Ton Miles Performed

Type of operation	Gross vehicle weight groups						
	0-2½ tons	2½-5 tons	5-7½ tons	7½-10 tons	10-15 tons	Over 15 tons	Total
Total tons of goods carried							
'000							
For hire	2	363	667	6,236	19,761	16,396	43,425
Private:							
Intercity	2,299	2,824	1,806	7,292	14,629	14,766	43,616
Urban	3,212	7,054	4,473	13,452	26,446	14,665	69,302
Farm	1,507	986	345	778	315	1	3,932
Total	7,020	11,227	7,291	27,758	61,151	45,828	160,275
Average weight carried (Average weight of goods carried per one-way trip) ¹							
For hire .....	.2	1.3	2.8	4.3	6.4	11.8	9.8
Private:							
Intercity .....	.4	1.1	2.4	3.5	5.9	12.2	4.8
Urban .....	.2	.7	1.5	2.7	5.7	8.0	1.4
Farm .....	.3	.9	2.2	3.4	5.2	4.3	.9
Total .....	.3	.9	2.0	3.4	6.0	11.8	4.3
Total ton miles performed							
'000							
For hire	27	3,775	12,752	97,597	280,692	1,905,420	2,300,263
Private:							
Intercity	40,581	59,192	38,676	170,252	362,280	1,128,438	1,799,419
Urban	42,956	87,592	40,413	110,748	189,127	118,601	589,437
Farm	15,986	13,764	7,283	13,931	9,856	244	61,064
Total	99,550	164,323	99,124	392,528	841,955	3,152,703	4,750,183
Average ton miles per truck							
For hire	800	7,200	21,000	34,100	67,500	401,700	177,900
Private:							
Intercity	1,200	6,200	13,100	29,500	64,900	303,800	29,500
Urban	500	3,100	5,800	13,400	38,000	48,000	4,600
Farm	400	1,300	6,100	11,900	30,100	81,300	1,100
Total	700	3,300	8,400	21,700	55,900	288,400	18,500

1. Excludes vehicles making trips empty.

**Section I. Motor Truck Traffic Performed by Ontario Registered Trucks Inside and Outside the Province
January 1, 1956 – December 31, 1956**

TABLE 4. Total Truck Capacity

Type of operation	Gross vehicle weight groups						
	0-2½ tons	2½-5 tons	5-7½ tons	7½-10 tons	10-15 tons	Over 15 tons	Total
Total capacity ton miles ¹							
'000							
For hire	200	9,685	28,688	219,779	626,137	3,526,193	4,410,682
Private:							
Intercity	271,139	180,825	97,042	434,719	882,494	2,246,478	4,112,697
Urban	389,232	282,979	126,344	331,985	447,346	331,122	1,909,008
Farm	141,317	56,590	20,770	40,282	24,833	742	284,534
Total	801,888	530,079	272,844	1,026,765	1,980,810	6,104,535	10,716,921
Capacity ton miles per truck							
For hire	5,600	18,600	47,300	76,800	150,500	743,500	341,100
Private:							
Intercity	8,100	18,800	32,900	75,300	158,000	604,900	67,500
Urban	5,100	10,000	18,000	40,200	89,800	133,900	15,100
Farm	3,400	5,200	17,500	34,400	75,900	247,400	5,100
Total	5,300	10,700	23,200	56,900	131,600	558,400	41,800
Percentage of capacity utilized							
For hire	13.5	39.0	44.5	44.4	44.8	54.0	52.2
Private:							
Intercity	15.0	32.7	39.9	39.2	41.1	50.2	43.8
Urban	11.0	31.0	32.0	33.4	42.3	35.8	30.9
Farm	11.3	24.3	35.1	34.6	39.7	32.9	21.5
Total	12.4	31.0	36.3	38.2	42.5	51.6	44.3

1. Capacity ton miles are determined by multiplying the actual total number of miles travelled by the difference between gross vehicle weight and estimated tare weight or the weight of the heaviest load carried whichever is higher.

**Section I. Motor Truck Traffic Performed by Ontario Registered Trucks Inside and Outside the Province
January 1, 1956 – December 31, 1956**

TABLE 5. Total Gross Ton Miles Performed¹

Type of operation	Gross vehicle weight groups						
	0-2½ tons	2½-5 tons	5-7½ tons	7½-10 tons	10-15 tons	Over 15 tons	Total
For hire Private: Intercity Urban Farm Total	Total gross ton miles						
	'000						
	417	17,278	36,044	244,693	648,733	3,665,531	4,612,696
	541,352	287,564	133,840	489,525	876,559	2,274,164	4,603,004
	826,641	486,255	169,544	365,942	461,994	293,399	2,603,775
	286,947	92,914	26,539	41,552	24,172	628	472,752
	1,655,357	884,011	365,967	1,141,712	2,011,458	6,233,722	12,292,227
	Average gross ton miles per truck						
	11,600	33,100	59,500	85,500	155,900	772,800	356,700
	16,300	29,900	45,300	84,800	156,900	612,300	75,600
10,900	17,100	24,200	44,300	92,700	118,700	20,500	
6,800	8,500	22,300	35,500	73,900	209,400	8,500	
Total	11,000	17,900	31,200	63,200	133,600	570,200	48,000

1. Gross ton miles performed are determined by adding to the total ton miles performed the weight of the vehicle empty (tare) multiplied by total miles travelled.

**Section I. Motor Truck Traffic Performed by Ontario Registered Trucks Inside and Outside the Province
January 1, 1956 – December 31, 1956**

TABLE 6. Total Revenue From Operations Performed by For Hire Carriers

	Gross vehicle weight groups						Total
	0-2½ tons	2½-5 tons	5-7½ tons	7½-10 tons	10-15 tons	Over 15 tons	
Total revenue	\$ 67,000	1,433,000	2,142,000	11,747,000	23,299,000	119,553,000	158,241,000
Revenue per ton mile	¢ 248.3	38.0	16.8	12.0	8.3	6.3	6.9
Revenue per mile (Total mileage travelled) ..	¢ 28.6	27.1	31.6	32.3	30.2	58.2	47.8
Average yearly revenue per truck	\$ 1,900	2,700	3,500	4,100	5,600	25,200	12,200

**Section II. Motor Truck Traffic Performed by Ontario Registered Trucks Within the Province
January 1, 1956 – December 31, 1956**

TABLE 7. Mileage Travelled Within the Province

Type of operation	Gross vehicle weight groups						
	0-2½ tons 0-5,000 lbs.	2½-5 tons 5,001-10,000 lbs.	5-7½ tons 10,001-15,000 lbs.	7½-10 tons 15,001-20,000 lbs.	10-15 tons 20,001-30,000 lbs.	Over 15 tons 30,001 lbs. and over	Total
	Total mileage travelled						
	'000						
For hire	236	5,295	6,777	35,449	75,956	181,728	305,441
Private:							
Intercity	315,498	98,722	26,445	77,485	102,253	109,514	729,917
Urban	484,447	178,280	38,218	64,036	57,664	24,413	847,058
Farm	175,082	37,313	5,785	7,292	3,223	57	228,752
Total	975,263	319,610	77,225	184,262	239,096	315,712	2,111,168
	Average yearly mileage per truck						
For hire	6,600	10,100	11,200	12,400	18,300	38,300	23,600
Private:							
Intercity	9,500	10,300	9,000	13,400	18,300	29,500	12,000
Urban	6,400	6,300	5,500	7,800	11,600	9,900	6,700
Farm	4,200	3,400	4,900	6,200	9,900	19,000	4,100
Total	6,500	6,500	6,600	10,200	15,900	28,900	8,200
	Average journey (Average distance each ton of goods was carried)						
For hire	14.5	10.4	19.1	15.3	14.0	104.4	47.5
Private:							
Intercity	17.3	20.8	21.4	22.8	23.8	63.1	36.0
Urban	13.4	12.4	9.0	8.2	7.2	8.1	8.5
Farm	10.6	14.0	21.1	17.9	31.3	195.5	15.5
Total	14.1	14.6	13.6	13.9	13.5	59.5	26.6
	Percentage of total mileage travelled empty						
For Hire	33.3	46.2	32.2	37.0	43.5	23.1	30.4
Private:							
Intercity	67.0	45.6	39.1	39.5	42.5	31.4	51.4
Urban	61.1	33.4	30.1	36.1	42.0	39.3	50.1
Farm	73.1	59.1	42.8	43.8	41.1	32.4	68.6
Total	65.2	40.4	34.3	38.0	42.7	27.3	49.7

Section II. Motor Truck Traffic Performed by Ontario Registered Trucks Within the Province
January 1, 1956 – December 31, 1956

TABLE 8. Fuel Consumption Within the Province

Type of operation	Gross vehicle weight groups						
	0-2½ tons	2½-5 tons	5-7½ tons	7½-10 tons	10-15 tons	Over 15 tons	Total
Total gallons of gasoline consumed							
'000							
For hire	14	492	769	4,294	10,022	29,134	44,725
Private:							
Intercity	19,856	8,041	2,659	9,296	13,958	18,442	72,252
Urban	32,072	15,283	4,053	7,977	8,537	4,924	72,846
Farm	10,992	2,821	590	815	393	9	15,620
Total	62,934	26,637	8,071	22,382	32,910	52,509	205,443
Total gallons of diesel oil consumed							
'000							
For hire	—	—	—	—	21	4,529	4,550
Private:							
Intercity	—	—	—	—	144	1,744	1,888
Urban	—	—	—	—	2	33	35
Farm	—	—	—	—	—	—	—
Total	—	—	—	—	167	6,306	6,473
Miles per gallon of gasoline							
For hire	16.8	10.8	8.8	8.3	7.6	5.2	6.1
Private:							
Intercity	15.9	12.3	9.9	8.3	7.3	5.3	9.9
Urban	15.1	11.7	9.4	8.0	6.8	4.9	11.6
Farm	15.9	13.2	9.8	8.9	8.2	6.7	14.6
Total	15.5	12.0	9.6	8.2	7.2	5.2	10.0
Miles per gallon of diesel oil							
For hire	—	—	—	—	5.8	6.7	6.6
Private:							
Intercity	—	—	—	—	7.2	6.4	6.5
Urban	—	—	—	—	5.0	7.2	7.1
Farm	—	—	—	—	—	—	—
Total	—	—	—	—	7.0	6.5	6.6

Section II. Motor Truck Traffic Performed by Ontario Registered Trucks Within the Province
January 1, 1956 – December 31, 1956

TABLE 9. Goods Carried and Ton Miles Performed Within the Province

Type of operation	Gross vehicle weight groups						
	0-2½ tons	2½-5 tons	5-7½ tons	7½-10 tons	10-15 tons	Over 15 tons	Total
Total tons of goods carried							
'000							
For hire	2	363	667	6,137	19,746	15,666	42,581
Private:							
Intercity	2,299	2,821	1,806	7,263	14,567	14,359	43,115
Urban	3,212	7,054	4,473	13,452	26,446	14,665	69,302
Farm	1,507	986	345	778	315	1	3,932
Total	7,020	11,224	7,291	27,630	61,074	44,691	158,930
Average weight carried (Average weight of goods carried per one-way trip) ¹							
For hire .....	.2	1.3	2.8	4.2	6.5	11.7	9.5
Private:							
Intercity .....	.4	1.1	2.4	3.5	5.9	12.1	4.4
Urban .....	.2	.7	1.5	2.7	5.7	8.0	1.4
Farm .....	.3	.9	2.2	3.4	5.2	4.3	.9
Total .....	.3	.9	2.0	3.4	6.0	11.6	4.0

1. Excludes vehicles making trips empty.

Section II. Motor Truck Traffic Performed by Ontario Registered Trucks Within the Province
January 1, 1956 – December 31, 1956

TABLE 9. Goods Carried and Ton Miles Performed Within the Province – Concluded

Type of operation	Gross vehicle weight groups						
	0-2½ tons	2½-5 tons	5-7½ tons	7½-10 tons	10-15 tons	Over 15 tons	Total
Total ton miles performed							
'000							
For hire	27	3,775	12,752	94,190	277,277	1,636,195	2,024,216
Private:							
Intercity	39,761	58,736	38,575	165,876	346,413	905,841	1,555,202
Urban	42,956	87,592	40,413	110,748	189,127	118,601	589,437
Farm	15,986	13,764	7,283	13,931	9,856	244	61,064
Total	98,730	163,867	99,023	384,745	822,673	2,660,881	4,229,919
Average ton miles per truck							
For hire	800	7,200	21,000	32,900	66,600	345,000	156,600
Private:							
Intercity	1,200	6,100	13,100	28,700	62,000	243,900	25,500
Urban	600	3,100	5,800	13,400	38,000	48,000	4,600
Farm	400	1,300	6,100	11,900	30,100	81,300	1,100
Total	700	3,300	8,400	21,300	54,600	243,400	16,500

Section II. Motor Truck Traffic Performed by Ontario Registered Trucks Within the Province
January 1, 1956 – December 31, 1956

TABLE 10. Truck Capacity Within the Province

Type of operation	Gross vehicle weight groups						
	0-2½ tons	2½-5 tons	5-7½ tons	7½-10 tons	10-15 tons	Over 15 tons	Total
Total capacity ton miles ¹							
'000							
For hire	200	9,685	28,689	210,037	616,110	3,109,235	3,973,956
Private:							
Intercity	269,676	179,724	96,808	424,625	844,083	1,922,611	3,737,527
Urban	389,232	282,979	126,344	331,985	447,346	331,122	1,909,008
Farm	141,317	56,590	20,770	40,282	24,833	742	284,534
Total	800,425	528,978	272,611	1,006,929	1,932,372	5,363,710	9,905,025
Capacity ton miles per truck							
For hire	5,600	18,600	47,300	73,400	148,100	655,500	307,300
Private:							
Intercity	8,100	18,700	32,800	73,600	151,100	517,700	61,400
Urban	5,100	10,000	18,000	40,200	89,800	133,900	15,100
Farm	3,400	5,200	17,500	34,400	75,900	247,400	5,100
Total	5,300	10,700	23,200	55,800	128,300	490,600	38,700
Percentage of capacity utilized							
For hire	13.6	39.0	44.5	44.8	45.0	52.6	50.9
Private:							
Intercity	14.7	32.7	39.8	39.1	41.0	47.1	41.6
Urban	11.0	31.0	32.0	33.4	42.3	35.8	30.9
Farm	11.3	24.3	35.1	34.6	39.7	32.9	21.5
Total	12.3	31.0	36.3	38.2	42.6	49.6	42.7

1. Capacity ton miles are determined by multiplying the actual number of miles travelled within the province by the difference between gross vehicle weight and estimated tare weight or the weight of the heaviest load carried whichever is higher.

Section II. Motor Truck Traffic Performed by Ontario Registered Trucks Within the Province
January 1, 1956 – December 31, 1956

TABLE 11. Gross Ton Miles Performed Within the Province¹

Type of operation	Gross vehicle weight groups						
	0-2½ tons	2½-5 tons	5-7½ tons	7½-10 tons	10-15 tons	Over 15 tons	Total
Total gross ton miles							
	'000						
For hire	417	17,278	36,044	235,179	638,650	3,188,538	4,116,106
Private:							
Intercity	537,665	285,990	133,523	477,685	836,195	1,851,222	4,122,280
Urban	826,641	486,255	169,544	365,942	461,994	293,399	2,603,775
Farm	286,947	92,914	26,539	41,552	24,172	628	472,752
Total	1,651,670	882,437	365,650	1,120,358	1,961,011	5,333,787	11,314,913
Average gross ton miles per truck							
For hire	11,600	33,100	59,500	82,200	153,500	672,300	318,300
Private:							
Intercity	16,200	29,800	45,200	82,800	149,700	498,400	67,700
Urban	10,900	17,100	24,200	44,300	92,700	118,700	20,500
Farm	6,800	8,500	22,300	35,500	73,900	209,400	8,500
Total	10,900	17,800	31,100	62,000	130,200	487,900	44,200

1. Gross ton miles performed are determined by adding to the total ton miles performed the weight of vehicle empty (tare) multiplied by total miles travelled.

Section II. Motor Truck Traffic Performed by Ontario Registered Trucks Within the Province
January 1, 1956 – December 31, 1956

TABLE 12. Revenue From Operations Performed by For Hire Carriers Within the Province

	Gross vehicle weight groups						
	0-2½ tons	2½-5 tons	5-7½ tons	7½-10 tons	10-15 tons	Over 15 tons	Total
Total revenue	\$ 67,000	1,433,000	2,142,000	11,375,000	22,911,000	105,768,000	143,696,000
Revenue per ton mile	¢ 248.3	38.0	16.8	12.1	8.3	6.5	7.1
Revenue per mile (total mileage travelled) ..	¢ 28.6	27.1	31.6	32.1	30.2	58.2	47.0
Average yearly revenue per truck	\$ 1,900	2,700	3,500	4,000	5,500	22,300	11,100

Section III. Motor Truck Traffic Performed by Ontario Registered Trucks Engaged in Interprovincial and International Traffic January 1, 1956 – December 31, 1956

TABLE 13. Total Tons of Goods Carried Into and Out of Ontario by Origin and Destination, by Type of Operation

Origin or destination	For hire trucks	Private intercity trucks	All trucks
	'000 tons		
To Nova Scotia	1	3	4
From Nova Scotia	—	1	1
To New Brunswick	11	5	16
From New Brunswick	7	4	11
To Quebec	871	595	1,466
From Quebec	900	245	1,145
To Manitoba	31	66	97
From Manitoba	30	64	94
To Saskatchewan	3	2	5
From Saskatchewan	—	10	10
To Alberta	14	11	25
From Alberta	11	10	21
To British Columbia	13	9	22
From British Columbia	17	9	26
To United States	195	203	398
From United States	144	303	447
Grand total	To	894	2,033
	From	646	1,755

Section III. Motor Truck Traffic Performed by Ontario Registered Trucks Engaged in Interprovincial and International Traffic January 1, 1956 - December 31, 1956

TABLE 14. Interprovincial and International Traffic by Gross Vehicle Weight Groups

Gross vehicle weight	For hire trucks			
	Total mileage travelled with load	Total ton miles	Average weight carried	Average distance per trip
	'000	'000	Tons	Miles
20,000 lbs. or less	118	478	4	84
20,001-25,000 lbs.	719	6,209	8	108
25,001-30,000 lbs.	394	1,390	4	390
30,001-35,000 lbs.	794	3,114	4	246
35,001-40,000 lbs.	8,993	61,240	7	345
40,001-45,000 lbs.	7,427	66,302	9	223
45,001-50,000 lbs.	2,332	17,231	7	316
50,001 lbs and over	45,902	657,114	14	382
Total	66,679	813,078	12	339
	Private intercity trucks			
	Total mileage travelled with load	Total ton miles	Average weight carried	Average distance per trip
	'000	'000	Tons	Miles
20,000 lbs. or less	2,305	5,528	2	108
20,001-25,000 lbs.	2,191	13,453	6	166
25,001-30,000 lbs.	2,200	20,051	9	371
30,001-35,000 lbs.	1,152	6,762	6	194
35,001-40,000 lbs.	3,428	35,948	10	501
40,001-45,000 lbs.	5,219	57,222	11	458
45,001-50,000 lbs.	1,424	10,901	8	570
50,001 lbs. and over	27,362	395,106	14	515
Total	45,281	544,971	12	375

Section III. Motor Truck Traffic Performed by Ontario Registered Trucks Engaged in Interprovincial and International Traffic January 1, 1956 - December 31, 1956

TABLE 15. Commodities Carried by Ontario Registered Trucks in Interprovincial and International Traffic

Commodity classification	For hire trucks						
	Weight of goods carried	Total miles travelled with load	Total ton miles	Average weight carried	Average distance per ton	Total revenue	Revenue per ton mile
	'000 tons	'000	'000	Tons	Miles	\$'000	¢
Agricultural products	84	1,666	23,611	14	281	992	4.20
Animals and animal products	110	6,419	73,745	12	670	4,027	5.46
Mine products	19	24	186	8	10	11	5.91
Forest products	32	327	5,440	17	169	200	3.67
Manufactures and miscellaneous	1,498	43,940	512,645	12	342	26,628	5.19
N.O.S. general freight	505	14,303	197,451	14	391	9,611	4.87
Total	2,248	66,679	813,078	12	362	41,469	5.10
	Private intercity trucks						
	Weight of goods carried	Total miles travelled with load	Total ton miles	Average weight carried	Average distance per ton		
	'000 tons	'000	'000	Tons	Miles		
Agricultural products	141	4,441	50,917	12	361		
Animals and animal products	200	5,680	72,696	13	363		
Mine products	8	31	217	7	27		
Forest products	82	683	7,852	12	96		
Manufactures and miscellaneous	834	21,538	225,757	11	271		
N.O.S. general freight	275	12,908	187,532	15	682		
Total	1,540	45,281	544,971	12	354		

**Section IV. Motor Bus Traffic Performed by Ontario Registered Buses Inside and Outside the Province
January 1, 1956 – December 31, 1956**

TABLE 16. Mileage, Fuel, Passengers and Passenger Miles, Capacity and Revenue

	Passenger seating capacity				
	0-19	20-29	30-39	40 & over	Total
Mileage:					
Total mileage travelled	1,703,000	5,454,000	12,970,000	7,446,000	27,573,000
Average yearly mileage per bus	20,300	19,500	24,600	35,800	25,100
Average journey (Average distance per passenger)	15.4	26.6	29.5	24.3	27.0
Fuel:					
Total gallons of gasoline consumed	135,000	825,000	1,486,000	342,000	2,788,000
Total gallons of diesel oil consumed	—	14,000	930,000	758,000	1,702,000
Miles per gallon of gasoline	12.6	6.5	5.2	5.4	5.9
Miles per gallon of diesel oil	—	9.3	5.7	7.4	6.5
Passengers and passenger miles:					
Total number of passengers carried	311,000	2,987,000	8,740,000	6,284,000	18,322,000
Total number of passenger miles	4,786,000	79,341,000	257,944,000	152,879,000	494,950,000
Average number of passengers carried per mile	2.8	14.5	19.9	20.5	18.0
Capacity:					
Total capacity seat miles	14,222,000	152,461,000	474,474,000	329,928,000	971,085,000
Percentage of capacity utilized	33.7	52.0	54.4	46.3	51.0
Revenue:					
Total passenger revenue	\$ 238,000	1,473,000	5,659,000	3,708,000	11,078,000
Revenue per mile (total mileage travelled)	¢ 14.0	27.0	43.6	49.8	40.2
Revenue per passenger mile	¢ 5.0	1.9	2.2	2.4	2.2
Revenue per bus	\$ 2,800	5,300	10,700	17,800	10,100

**Section V. Motor Bus Traffic Performed by Ontario Registered Buses Within the Province
January 1, 1956 – December 31, 1956**

TABLE 17. Mileage, Fuel, Passengers and Passenger Miles, Capacity and Revenue

	Passenger seating capacity				
	0-19	20-29	30-39	40 & over	Total
Mileage:					
Total mileage travelled	1,703,000	5,401,000	12,194,000	7,232,000	26,530,000
Average yearly mileage per bus	20,300	19,300	23,100	34,800	24,100
Average journey (Average distance per passenger)	15.4	26.4	35.8	23.9	29.2
Fuel:					
Total gallons of gasoline consumed	135,000	817,000	1,398,000	341,000	2,691,000
Total gallons of diesel oil consumed	—	14,000	844,000	729,000	1,587,000
Miles per gallon of gasoline	12.6	6.5	5.1	5.4	5.9
Miles per gallon of diesel oil	—	9.3	5.9	7.4	6.6
Passengers and passenger miles:					
Total number of passengers carried	311,000	2,971,000	6,703,000	6,184,000	16,169,000
Total number of passenger miles	4,786,000	78,315,000	240,256,000	147,993,000	471,350,000
Average number of passengers carried per mile	2.8	14.5	19.7	20.5	17.8
Capacity:					
Total capacity seat miles	14,222,000	151,077,000	446,041,000	318,613,000	929,953,000
Percentage of capacity utilized	33.7	51.8	53.9	46.4	50.7
Revenue:					
Total passenger revenue	\$ 238,000	1,446,000	5,228,000	3,583,000	10,495,000
Revenue per mile (total mileage travelled)	¢ 14.0	26.8	42.9	49.5	39.6
Revenue per passenger mile	¢ 5.0	1.8	2.2	2.4	2.2
Revenue per bus	\$ 2,800	5,200	9,900	17,200	9,500

APPENDIX I
Sampling Results

Type of operation	Gross vehicle weight groups						
	0-2½ tons 0-5,000 lbs.	2½-5 tons 5,001-10,000 lbs.	5-7½ tons 10,001-15,000 lbs.	7½-10 tons 15,001-20,000 lbs.	10-15 tons 20,001-30,000 lbs.	Over 15 tons 30,001 lbs. and over	Total
Estimated average Ontario truck population January 1, 1956-December 31, 1956							
For hire	36	522	606	2,862	4,161	4,743	12,930
Private:							
Intercity	33,282	9,612	2,952	5,772	5,586	3,714	60,918
Urban	75,690	28,440	7,002	8,256	4,933	2,472	126,843
Farm	41,922	10,908	1,188	1,170	327	3	55,518
Total	150,930	49,482	11,748	18,060	15,057	10,932	256,209
Total number of trucks selected in samples							
For hire	2	58	101	477	1,387	1,581	3,606
Private:							
Intercity	1,837	1,051	482	941	1,743	1,225	7,279
Urban	4,178	3,115	1,142	1,350	1,558	816	12,159
Farm	2,100	1,133	208	170	97	1	3,709
Total	8,117	5,357	1,933	2,938	4,785	3,623	26,753
Number of questionnaires returned completed							
For hire	1*	27	51	233	618	1,053	1,983
Private:							
Intercity	1,047	569	237	558	934	696	4,041
Urban	2,375	1,668	559	787	836	458	6,683
Farm	1,102	585	107	92	48	1*	1,935
Total	4,525	2,849	954	1,670	2,436	2,208	14,642
Number of sampled trucks reported not in use during survey week							
For hire	—	13	26	132	411	256	838
Private:							
Intercity	363	279	175	221	460	304	1,802
Urban	833	843	417	324	410	202	3,029
Farm	461	316	72	46	27	—	922
Total	1,657	1,451	690	723	1,308	762	6,591
Number of questionnaires returned incomplete and unusable							
For hire	1	10	13	76	221	143	464
Private:							
Intercity	277	120	36	91	185	106	815
Urban	632	359	86	138	168	75	1,458
Farm	350	138	15	19	12	—	534
Total	1,260	627	150	324	586	324	3,271
Number of questionnaires not returned (non respondents)							
For hire	—	8	11	36	137	129	321
Private:							
Intercity	150	83	34	71	164	119	621
Urban	338	245	80	101	144	81	989
Farm	187	94	14	13	10	—	318
Total	675	430	139	221	455	329	2,249

* Statistics appearing in these cells throughout the report are not considered reliable.

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MOTOR TRANSPORT TRAFFIC STATISTICS
PROVINCE OF ONTARIO
1957

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PROVINCE OF ONTARIO

JANUARY 1 — DECEMBER 31, 1957

CHART-1

TRUCK REGISTRATIONS BY TYPE OF OPERATION

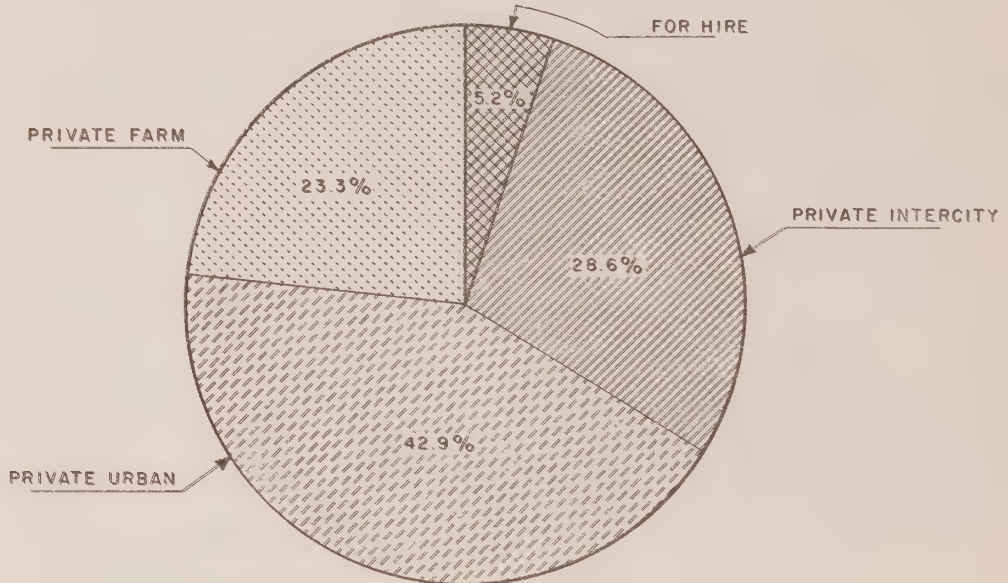
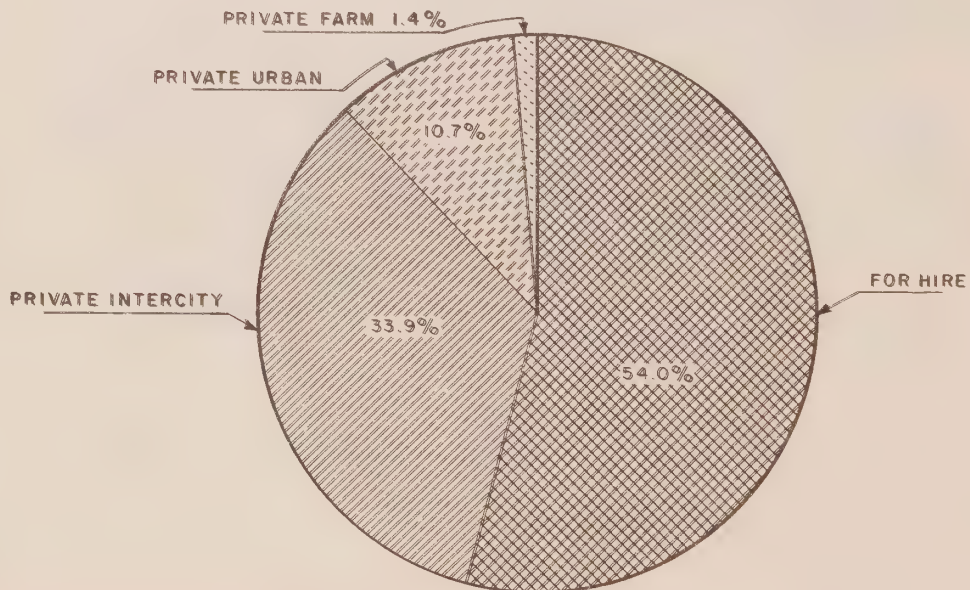


CHART-2

NET TON MILES BY TYPE OF OPERATION



INTRODUCTION

Methods followed in Survey

The 1957 annual survey of motor transport traffic in the Province of Ontario is based upon a sample of approximately 11 per cent of trucks and 25 per cent of intercity buses registered in the province. To allow for seasonal variations in traffic and to ensure that the selected vehicles represented current registrations in force, the survey was conducted in four quarterly segments with approximately one-fourth of the total sample selected each quarter. Vehicles selected were coded so that a particular vehicle would not be chosen more than once during each licence year. Each quarterly segment of the survey was conducted for a seven day period, Sunday through Saturday.

All trucks and buses registered in the province are included with the following exceptions: (a) those not engaged in transportation services; (b) buses utilized for scheduled urban transit or school service; and, (c) military and other government owned vehicles. Trailers as such were excluded from the sample, but details of tractor-trailer combinations were obtained by including the power units or tractors in the survey.

Vehicles in the sample are stratified by function or type of operation and by gross vehicle weight

groups. The four functional categories used are: for-hire, private intercity, private urban and private farm. For-hire trucks are those operated for compensation or gain anywhere in the province according to licence; private intercity vehicles are those owned and operated by firms and individuals on intercity routes to transport their own goods; private urban vehicles are those which are operated predominantly within urban or metropolitan areas; and private farm trucks are those operated by farmers primarily to transport farm produce and supplies.

Since only intercity for-hire trucks are registered as a separate class in Ontario, it was necessary to use completed questionnaires to classify privately operated vehicles in the sample as "intercity", "urban" and "farm". Some urban trucks are operated for compensation but these vehicles were not included in the for-hire category. The number of such vehicles was not known and a reliable estimate was not obtained on the basis of replies to the survey questionnaire. As a result the data shown throughout this report as "for-hire" is understated and that for the "private urban" category is overstated by the extent of those urban for-hire vehicles classified as "private urban".

Expansion of Survey Results

The distribution of sample vehicles by gross vehicle weight groups and by function was used to provide population estimates as at the time of the sample selection. Sample results were then expanded to represent the operations of all trucks and intercity buses registered in the province by multiplying the sample results by the inverse ratio of the sample to the population and by the ratio of three months to one week.

The expanded data for each of the four quarterly segments were added together to obtain annual provincial estimates. Yearly operating averages such as average yearly mileage were calculated from the average number of vehicles registered during the twelve month period. All other operating ratios were obtained from the twelve month aggregates.

Response to Survey

During the year survey questionnaires were sent to the owners or operators of 28,017 motor vehicles. Of this number 14,261 were returned completed and 7,234 vehicles were reported not used

during the survey week. In addition, 3,784 questionnaires were returned with insufficient information and were therefore unusable. Non response to the survey totalled 2,738 or 9.8 per cent.

Review of Survey Results

Excluding vehicles that do not perform transportation services, the average number of trucks registered in Ontario during the year was 265,185. Of these 13,803 or 5.2 per cent were common or for-hire carriers; 75,843 or 28.6 per cent were private intercity vehicles; 113,862 or 42.9 per cent were private trucks operating predominantly within urban areas; and 61,677 or 23.3 per cent were private farm trucks.

In the tables presented, blanks appear in a number of weight classifications where no vehicles were chosen in any of the quarterly sample selections. It does not follow that there are no vehicles in the province belonging to these classifications.

Section 1: Traffic Inside and Outside the Province

Section 1 contains estimates of total traffic performed by all Ontario registered trucks both inside and outside the province.

From the data presented in this section it may be observed that although for-hire vehicles were only 5.2 per cent of all trucks registered in Ontario, they accounted for 54.0 per cent of the total net ton miles performed during 1957. This results not only from the comparatively high average yearly mileage of for-hire trucks operating inside and outside of Ontario (25,600 as opposed to an average of 7,800 miles for all trucks) but also from the heavier average load carried (10.1 tons as compared with an average of 4.4 tons for all trucks). The heavier loads carried by for-hire trucks is to be expected since, as revealed in the appendix, nearly two-fifths of these vehicles have a gross vehicle weight of over 15 tons whereas less than three per cent of all other classes combined are in this upper weight group. The predominance of heavier vehicles in the for-hire class also explains the low miles per gallon of gasoline ratio of 6.1 as compared with a ratio of 9.8 for all vehicles.

Section 2: Traffic Within the Province

This section presents estimates of traffic performed by Ontario registered trucks entirely inside the province excluding the "outside the province" portion of interprovincial and international traffic as well as a small amount of traffic performed entirely outside the province. Comparing the data

presented in Section 1 and Section 2, it is apparent that for-hire vehicles accumulated about 18 per cent and private intercity about 11 per cent of their total net ton miles outside of Ontario.

Section 3: Intraprovincial Traffic

This section includes estimates of for-hire and private intercity operations originating and terminating entirely inside the boundaries of Ontario. It is significant to note that vehicles of over 25 tons accounted for 68.7 per cent of the total net ton miles performed by for-hire trucks in intraprovincial traffic. Of the total net ton miles performed by both for-hire and private intercity trucks, manufactured products accounted for well over 50 per cent.

Section 4: Interprovincial and International Traffic

Statistics of traffic performed by for-hire and private intercity trucks between Ontario and other provinces and the United States are included in this section. On the present basis of sampling motor transport traffic, comparatively few Ontario registered trucks engaging in interprovincial and international traffic are included in these surveys and as a result wholly reliable estimates of such traffic have not been obtained. Hence the data in this section of the report should be used with considerable caution.

These estimates indicate with some reasonableness, however, that almost three-quarters of the total tons of goods carried by Ontario registered trucks in interprovincial and international traffic was with Quebec; and, that over one-third of the total net ton miles performed and about one-quarter of the revenue earned by for-hire vehicles was in interprovincial and international operations.

Sections 5 and 6: Intercity Bus Traffic

Section 5 presents statistics on intercity bus traffic both inside and outside the province while Section 6 covers traffic within the province only. There is little significant difference in the data presented in these two sections indicating that a relatively small proportion of traffic by Ontario registered buses was performed outside provincial boundaries.

**SECTION 1. TRAFFIC PERFORMED BY ONTARIO REGISTERED TRUCKS INSIDE AND OUTSIDE THE PROVINCE
JANUARY 1 - DECEMBER 31, 1957**

TABLE 1. All Trucks by Type of Operation

		For hire	Private			Total
			Intercity	Urban	Farm	
Mileage:						
Total mileage travelled	'000	352,930	781,992	702,766	227,968	2,065,656
Average yearly mileage per truck		25,600	10,300	6,200	3,700	7,800
Average distance each ton was carried		56.8	34.3	9.6	13.8	31.7
Percentage of total mileage travelled empty		28.8	54.6	45.6	67.3	48.5
Fuel:						
Total gallons of gasoline consumed	'000	48,498	76,851	61,990	15,940	203,279
Miles per gallon of gasoline		6.1	9.9	11.3	14.3	9.8
Total gallons of diesel oil consumed	'000	8,791	3,218	91	—	12,100
Miles per gallon of diesel oil		6.3	6.4	5.6	—	6.3
Total gallons of other fuel consumed	'000	—	71	—	—	71
Miles per gallon of other fuel		—	7.1	—	—	7.1
Weight of goods carried:						
Total tons of goods carried	'000	44,843	46,638	52,336	4,776	148,593
Average weight carried ¹	ton	10.1	4.5	1.3	0.9	4.4
Net ton miles:						
Total net ton miles performed	'000	2,547,166	1,600,953	503,240	65,830	4,717,189
Average net ton miles per truck		184,500	21,100	4,400	1,100	17,800
Capacity ton miles:						
Total capacity ton miles ²	'000	5,553,059	3,912,931	1,645,482	286,435	11,397,907
Average capacity ton miles per truck		402,300	51,600	14,500	4,600	43,000
Percentage of capacity utilized		45.9	40.9	30.6	23.0	41.4
Gross ton miles:						
Total gross ton miles ³	'000	5,114,956	4,390,089	2,231,286	484,484	12,220,815
Average gross ton miles per truck		370,600	57,900	19,600	7,900	46,100
Revenue:						
Total revenue	\$'000	174,229	—	—	—	—
Revenue per ton mile	¢	6.8	—	—	—	—
Revenue per mile (total mileage travelled)	¢	49.4	—	—	—	—
Average revenue per truck	\$	12,600	—	—	—	—

TABLE 2. All Trucks by Gross Vehicle Weight Groups

	0-2½ tons 0-5,000 lbs.	2½-5 tons 5,001-10,000 lbs.	5-7½ tons 10,001-15,000 lbs.	7½-10 tons 15,001-20,000 lbs.	10-15 tons 20,001-30,000 lbs.	Over 15 tons 30,001 lbs. and over	Total
Mileage:							
Total mileage travelled '000	896,970	306,013	83,980	167,590	225,792	385,311	2,065,656
Average yearly mileage per truck	5,800	5,900	7,300	9,100	13,800	32,400	7,800
Average distance each ton was carried	17.1	13.1	12.6	14.4	13.1	71.8	31.7
Percentage of total mileage travelled empty	65.8	38.9	33.3	36.6	42.5	28.1	48.5
Fuel:							
Total gallons of gasoline consumed '000	59,076	25,324	8,707	20,523	31,593	58,056	203,279
Miles per gallon of gasoline	15.2	12.1	9.6	8.2	7.1	5.3	9.8
Total gallons of diesel oil consumed '000	—	—	—	—	165	11,935	12,100
Miles per gallon of diesel oil	—	—	—	—	6.5	6.3	6.3
Total gallons of other fuel consumed '000	—	32	—	—	—	39	71
Miles per gallon of other fuel	—	10.7	—	—	—	4.0	7.1
Weight of goods carried:							
Total tons of goods carried '000	4,863	10,204	7,661	22,707	56,747	46,411	148,593
Average weight carried ¹ ton	0.3	0.7	1.7	3.1	5.7	12.0	4.4
Net ton miles:							
Total net ton miles performed '000	82,927	133,425	96,575	326,115	744,397	3,333,750	4,717,189
Average net ton miles per truck	500	2,600	8,400	17,600	45,600	280,500	17,800
Capacity ton miles:							
Total capacity ton miles ² '000	713,034	460,758	272,645	873,439	1,799,288	7,278,743	11,397,907
Average capacity ton miles per truck	4,600	8,800	23,800	47,200	110,200	612,400	43,000
Percentage of capacity utilized	11.6	29.0	35.4	37.3	41.4	45.8	41.4
Gross ton miles:							
Total gross ton miles ³ '000	1,508,460	818,280	384,625	1,006,324	1,846,486	6,656,640	12,220,815
Average gross ton miles per truck	9,700	15,700	33,600	54,400	113,100	560,000	46,100

TABLE 3. For Hire Trucks by Gross Vehicle Weight Groups

	0-2½ tons	2½-5 tons	5-7½ tons	7½-10 tons	10-15 tons	Over 15 tons	Total
Mileage:							
Total mileage travelled '000	553	5,791	6,193	33,541	74,756	232,096	352,930
Average yearly mileage per truck	5,100	12,100	9,400	12,500	16,100	44,400	25,600
Average distance each ton was carried	24.8	5.1	14.5	14.4	14.3	118.2	56.8
Percentage of total mileage travelled empty	74.6	29.8	30.5	30.3	41.8	24.2	28.8
Fuel:							
Total gallons of gasoline consumed '000	42	592	630	4,204	9,983	33,047	48,498
Miles per gallon of gasoline	13.1	9.8	9.8	8.0	7.4	5.4	6.1
Total gallons of diesel oil consumed '000	—	—	—	—	123	8,668	8,791
Miles per gallon of diesel oil	—	—	—	—	6.4	6.3	6.3
Total gallons of other fuel consumed '000	—	—	—	—	—	—	—
Miles per gallon of other fuel	—	—	—	—	—	—	—
Weight of goods carried:							
Total tons of goods carried '000	1	1,100	547	5,480	19,279	18,436	44,843
Average weight carried ¹ ton	0.1	1.4	1.8	3.4	6.3	12.4	10.1
Net ton miles:							
Total net ton miles performed '000	18	5,587	7,927	78,997	275,753	2,178,884	2,547,166
Average net ton miles per truck	200	11,700	12,000	29,500	59,300	417,200	184,500
Capacity ton miles:							
Total capacity ton miles ² '000	470	12,782	19,832	184,474	618,515	4,716,986	5,553,059
Average capacity ton miles per truck	4,400	26,900	30,000	68,800	132,900	903,100	402,300
Percentage of capacity utilized	3.8	43.7	40.0	42.8	44.6	46.2	45.9
Gross ton miles:							
Total gross ton miles ³ '000	930	20,175	28,814	214,892	637,433	4,212,712	5,114,956
Average gross ton miles per truck	8,600	42,300	43,700	80,100	137,000	806,600	370,600
Revenue:							
Total revenue \$'000	33	1,162	3,261	12,243	22,411	135,119	174,229
Revenue per ton mile ¢	184.2	20.8	41.1	15.5	8.1	6.2	6.8
Revenue per mile (total mileage travelled) ¢	5.9	20.1	52.7	38.5	30.0	58.2	49.4
Average revenue per truck \$	300	2,400	4,900	4,600	4,800	25,900	12,600

TABLE 4. Private Intercity Trucks by Gross Vehicle Weight Groups

	0-2½ tons	2½-5 tons	5-7½ tons	7½-10 tons	10-15 tons	Over 15 tons	Total
Mileage:							
Total mileage travelled '000	348,111	104,132	30,855	72,974	95,839	130,081	781,992
Average yearly mileage per truck	7,900	8,800	10,200	10,900	16,100	30,300	10,300
Average distance each ton was carried	24.4	17.9	18.0	22.5	17.2	62.5	34.3
Percentage of total mileage travelled empty	72.6	44.8	38.8	42.5	43.8	33.0	54.6
Fuel:							
Total gallons of gasoline consumed '000	22,647	8,503	3,198	8,710	13,308	20,485	76,851
Miles per gallon of gasoline	15.4	12.2	9.6	8.4	7.2	5.3	9.9
Total gallons of diesel oil consumed '000	—	—	—	—	42	3,176	3,218
Miles per gallon of diesel oil	—	—	—	—	6.5	6.4	6.4
Total gallons of other fuel consumed '000	—	32	—	—	—	39	71
Miles per gallon of other fuel	—	10.7	—	—	—	4.0	7.1
Weight of goods carried:							
Total tons of goods carried '000	1,521	2,557	2,130	6,226	17,606	16,598	46,638
Average weight carried ¹ ton	0.4	0.8	2.0	3.3	5.8	11.9	4.5
Net ton miles:							
Total net ton miles performed '000	37,059	45,648	38,311	140,059	301,962	1,037,914	1,600,953
Average net ton miles per truck	800	3,900	12,600	20,900	50,600	241,900	21,100
Capacity ton miles:							
Total capacity ton miles ² '000	278,745	157,456	103,557	378,473	753,320	2,241,380	3,912,931
Average capacity ton miles per truck	6,300	13,300	34,100	56,400	126,200	522,500	51,600
Percentage of capacity utilized	13.3	29.0	37.0	37.0	40.1	46.3	40.9
Gross ton miles:							
Total gross ton miles ³ '000	589,851	279,644	146,426	442,106	770,988	2,161,074	4,390,089
Average gross ton miles per truck	13,400	23,600	48,200	65,800	129,100	503,700	57,900

**SECTION II. TRAFFIC PERFORMED BY ONTARIO REGISTERED TRUCKS WITHIN THE PROVINCE
JANUARY 1 - DECEMBER 31, 1937**

TABLE 1. All Trucks by Type of Operation

	For hire	Private			Total
		Intercity	Urban	Farm	
Mileage:					
Total mileage travelled	'000 310,544	756,417	702,766	227,968	1,997,695
Average yearly mileage per truck	22,500	10,000	6,200	3,700	7,500
Average distance each ton was carried	46.9	30.9	9.6	13.8	27.6
Percentage of total mileage travelled empty	30.5	55.3	45.6	67.3	49.4
Fuel:					
Total gallons of gasoline consumed	'000 44,631	73,882	61,990	15,940	196,443
Miles per gallon of gasoline	6.2	10.0	11.3	14.3	9.9
Total gallons of diesel oil consumed	'000 5,217	2,231	91	—	7,539
Miles per gallon of diesel oil	6.6	6.2	5.6	—	6.5
Total gallons of other fuel consumed	'000 —	71	—	—	71
Miles per gallon of other fuel	—	7.1	—	—	7.1
Weight of goods carried:					
Total tons of goods carried	'000 44,499	46,388	52,336	4,776	147,999
Average weight carried ¹	ton 9.7	4.2	1.3	0.9	4.0
Net ton miles:					
Total net ton miles performed	'000 2,085,348	1,431,952	503,240	65,830	4,086,370
Average net ton miles per truck	151,100	18,900	4,400	1,100	15,400
Capacity ton miles:					
Total capacity ton miles ¹	'000 4,280,504	3,597,426	1,645,482	286,435	9,809,847
Average capacity ton miles per truck	310,100	47,400	14,500	4,600	37,000
Percentage of capacity utilized	48.7	39.8	30.6	23.0	41.7
Gross ton miles:					
Total gross ton miles ¹	'000 4,307,131	4,054,368	2,231,286	484,484	11,077,269
Average gross ton miles per truck	312,000	53,500	19,600	7,900	41,800
Revenue:					
Total revenue	\$'000 151,940	—	—	—	—
Revenue per ton mile	¢ 7.3	—	—	—	—
Revenue per mile (total mileage travelled)	¢ 48.9	—	—	—	—
Average revenue per truck	\$ 11,000	—	—	—	—

TABLE 2. All Trucks by Gross Vehicle Weight Groups

	0-2½ tons 0-5,000 lbs.	2½-5 tons 5,001-10,000 lbs.	5-7½ tons 10,001-15,000 lbs.	7½-10 tons 15,001-20,000 lbs.	10-15 tons 20,001-30,000 lbs.	Over 15 tons 30,001 lbs. and over	Total
Mileage:							
Total mileage travelled	'000 894,829	304,305	83,621	166,768	220,314	327,858	1,997,695
Average yearly mileage per truck	5,800	5,800	7,300	9,000	13,500	27,600	7,500
Average distance each ton was carried	16.8	13.0	12.5	14.3	12.8	59.4	27.6
Percentage of total mileage travelled empty	65.8	38.9	33.3	36.6	42.5	29.6	49.4
Fuel:							
Total gallons of gasoline consumed	'000 58,903	25,209	8,669	20,454	30,694	52,514	196,443
Miles per gallon of gasoline	15.2	12.1	9.6	8.2	7.2	5.3	9.9
Total gallons of diesel oil consumed	'000 —	—	—	—	104	7,435	7,539
Miles per gallon of diesel oil	—	—	—	—	6.3	6.5	6.5
Total gallons of other fuel consumed	'000 —	32	—	—	—	39	71
Miles per gallon of other fuel	—	10.7	—	—	—	4.0	7.1
Weight of goods carried:							
Total tons of goods carried	'000 4,859	10,203	7,651	22,707	56,707	45,872	147,999
Average weight carried ¹	ton 0.3	0.7	1.7	3.1	5.7	11.8	4.0
Net ton miles:							
Total net ton miles performed	'000 81,565	132,718	95,888	324,702	724,643	2,726,854	4,086,370
Average net ton miles per truck	500	2,500	8,400	17,500	44,400	229,400	15,400
Capacity ton miles:							
Total capacity ton miles ¹	'000 709,295	457,874	271,656	869,100	1,755,422	5,746,500	9,809,847
Average capacity ton miles per truck	4,600	8,800	23,700	47,000	107,500	483,500	37,000
Percentage of capacity utilized	11.5	29.0	35.3	37.4	41.3	47.5	41.7
Gross ton miles:							
Total gross ton miles ¹	'000 1,503,543	813,174	382,726	1,001,716	1,796,273	5,579,837	11,077,269
Average gross ton miles per truck	9,700	15,600	33,400	54,100	110,000	469,400	41,800

TABLE 3. For Hire Trucks by Gross Vehicle Weight Groups

	0-2½ tons	2½-5 tons	5-7½ tons	7½-10 tons	10-15 tons	Over 15 tons	Total
Mileage:							
Total mileage travelled	'000 553	5,791	6,095	33,347	73,801	190,957	310,544
Average yearly mileage per truck	5,100	12,100	9,200	12,400	15,900	36,600	22,500
Average distance each ton was carried	24.8	5.1	14.3	14.4	14.0	95.2	46.9
Percentage of total mileage travelled empty	74.6	29.8	31.0	30.2	42.2	25.9	30.5
Fuel:							
Total gallons of gasoline consumed	'000 42	592	618	4,179	9,909	29,291	44,631
Miles per gallon of gasoline	13.1	9.8	9.9	8.0	7.4	5.4	6.2
Total gallons of diesel oil consumed	'000 —	—	—	—	—	5,171	5,217
Miles per gallon of diesel oil	—	—	—	—	8.5	6.6	6.6
Total gallons of other fuel consumed	'000 —	—	—	—	—	—	—
Miles per gallon of other fuel	—	—	—	—	—	—	—
Weight of goods carried:							
Total tons of goods carried	'000 1	1,100	536	5,480	19,279	18,103	44,499
Average weight carried ¹	ton 0.1	1.4	1.8	3.4	6.3	12.2	9.7
Net ton miles:							
Total net ton miles performed	'000 18	5,587	7,658	78,838	270,537	1,722,710	2,085,348
Average net ton miles per truck	200	11,700	11,600	29,400	58,100	329,800	151,100
Capacity ton miles:							
Total capacity ton miles ²	'000 470	12,782	19,560	183,655	610,674	3,453,363	4,280,504
Average capacity ton miles per truck	4,400	26,800	29,600	68,500	131,200	661,200	310,100
Percentage of capacity utilized	3.8	43.7	39.2	42.9	44.3	49.9	48.7
Gross ton miles:							
Total gross ton miles ³	'000 930	20,175	28,222	214,002	627,512	3,416,290	4,307,131
Average gross ton miles per truck	8,600	42,300	42,800	79,800	134,900	654,100	312,000
Revenue:							
Total revenue	'000 33	1,162	3,241	12,053	21,993	113,458	151,940
Revenue per ton mile	¢ 184.2	20.8	42.3	15.3	8.1	6.6	7.3
Revenue per mile (total mileage travelled)	¢ 5.9	20.1	53.2	36.1	29.8	59.4	48.9
Average revenue per truck	\$ 300	2,400	4,900	4,500	4,700	21,700	11,000

TABLE 4. Private Intercity Trucks by Gross Vehicle Weight Groups

	0-2½ tons	2½-5 tons	5-7½ tons	7½-10 tons	10-15 tons	Over 15 tons	Total
Mileage:							
Total mileage travelled	'000 345,970	102,424	30,594	72,346	91,316	113,767	756,417
Average yearly mileage per truck	7,900	8,600	10,100	10,800	15,300	26,500	10,000
Average distance each ton was carried	23.5	17.6	17.8	22.3	16.4	54.1	30.9
Percentage of total mileage travelled empty	72.7	44.8	38.9	42.5	43.4	33.8	55.3
Fuel:							
Total gallons of gasoline consumed	'000 22,474	8,388	3,172	8,666	12,483	18,699	73,882
Miles per gallon of gasoline	15.4	12.2	9.6	8.3	7.3	5.4	10.0
Total gallons of diesel oil consumed	'000 —	—	—	—	58	2,173	2,231
Miles per gallon of diesel oil	—	—	—	—	4.7	6.2	6.2
Total gallons of other fuel consumed	'000 —	32	—	—	—	39	71
Miles per gallon of other fuel	—	10.7	—	—	—	4.0	7.1
Weight of goods carried:							
Total tons of goods carried	'000 1,517	2,556	2,131	6,226	17,566	16,392	46,388
Average weight carried ¹	ton 0.4	0.8	2.0	3.3	5.6	11.8	4.2
Net ton miles:							
Total net ton miles performed	'000 35,697	44,941	37,893	138,805	287,424	887,192	1,431,952
Average net ton miles per truck	800	3,800	12,500	20,700	48,100	206,800	18,900
Capacity ton miles:							
Total capacity ton miles ²	'000 275,006	154,572	102,840	374,953	717,295	1,972,760	3,597,426
Average capacity ton miles per truck	6,300	13,000	33,800	55,800	120,200	459,900	47,400
Percentage of capacity utilized	13.0	29.1	36.8	37.0	40.1	45.0	39.8
Gross ton miles:							
Total gross ton miles ³	'000 584,934	274,538	145,119	438,388	730,696	1,880,693	4,054,368
Average gross ton miles per truck	13,300	23,200	47,700	65,300	122,400	438,400	53,500

TABLE 5. Private Urban Trucks by Gross Vehicle Weight Groups

	0-2½ tons	2½-5 tons	5-7½ tons	7½-10 tons	10-15 tons	Over 15 tons	Total
Mileage:							
Total mileage travelled '000	374,703	158,210	42,320	53,331	51,068	23,134	702,766
Average yearly mileage per truck	5,900	5,700	6,300	6,700	9,700	9,700	6,200
Average distance each ton was carried	16.1	13.4	9.9	9.0	7.9	10.3	9.6
Percentage of total mileage travelled empty	56.6	31.3	28.2	31.2	41.3	39.4	45.6
Fuel:							
Total gallons of gasoline consumed '000	25,281	13,225	4,411	6,813	7,736	4,524	61,990
Miles per gallon of gasoline	14.8	12.0	9.6	7.8	6.6	5.0	11.3
Total gallons of diesel oil consumed '000	—	—	—	—	—	91	91
Miles per gallon of diesel oil	—	—	—	—	—	5.6	5.6
Total gallons of other fuel consumed '000	—	—	—	—	—	—	—
Miles per gallon of other fuel	—	—	—	—	—	—	—
Weight of goods carried:							
Total tons of goods carried '000	1,804	5,017	4,657	10,117	19,364	11,377	52,336
Average weight carried ¹ ton	0.2	0.6	1.5	2.5	5.1	8.3	1.3
Net ton miles:							
Total net ton miles performed '000	29,092	67,233	46,125	91,070	152,768	116,952	503,240
Average net ton miles per truck	500	2,400	6,900	11,500	29,100	49,300	4,400
Capacity ton miles:							
Total capacity ton miles ² '000	294,121	233,460	133,828	267,108	396,588	320,377	1,645,482
Average capacity ton miles per truck	4,600	8,500	20,100	33,600	75,600	135,000	14,500
Percentage of capacity utilized	9.9	28.8	34.5	34.1	38.5	36.5	30.6
Gross ton miles:							
Total gross ton miles ³ '000	628,759	422,877	189,693	302,483	404,620	282,854	2,231,286
Average gross ton miles per truck	9,800	15,300	28,500	38,100	77,100	119,200	19,600

TABLE 6. Private Farm Trucks by Gross Vehicle Weight Groups

	0-2½ tons	2½-5 tons	5-7½ tons	7½-10 tons	10-15 tons	Over 15 tons	Total
Mileage:							
Total mileage travelled '000	173,603	37,880	4,612	7,744	4,129	—	227,968
Average yearly mileage per truck	3,700	3,100	4,200	6,600	9,100	—	3,700
Average distance each ton was carried	10.9	9.8	12.9	18.1	27.9	—	13.8
Percentage of total mileage travelled empty	71.9	56.0	47.0	45.7	40.9	—	67.3
Fuel:							
Total gallons of gasoline consumed '000	11,106	3,004	468	796	566	—	15,940
Miles per gallon of gasoline	15.6	12.6	9.8	9.7	7.3	—	14.3
Total gallons of diesel oil consumed '000	—	—	—	—	—	—	—
Miles per gallon of diesel oil	—	—	—	—	—	—	—
Total gallons of other fuel consumed '000	—	—	—	—	—	—	—
Miles per gallon of other fuel	—	—	—	—	—	—	—
Weight of goods carried:							
Total tons of goods carried '000	1,537	1,530	327	884	498	—	4,776
Average weight carried ¹ ton	0.3	0.9	1.7	3.8	5.7	—	0.9
Net ton miles:							
Total net ton miles performed '000	16,758	14,957	4,212	15,989	13,914	—	65,830
Average net ton miles per truck	400	1,200	3,900	13,600	30,500	—	1,100
Capacity ton miles:							
Total capacity ton miles ² '000	139,698	57,060	15,428	43,384	30,865	—	286,435
Average capacity ton miles per truck	3,000	4,600	14,200	36,900	67,700	—	4,600
Percentage of capacity utilized	12.0	26.2	27.3	36.9	45.1	—	23.0
Gross ton miles:							
Total gross ton miles ³ '000	288,920	95,584	19,692	46,843	33,445	—	484,484
Average gross ton miles per truck	6,200	7,800	18,100	39,800	73,300	—	7,900

¹ Ton miles divided by miles travelled with load.² Capacity ton miles are determined by multiplying the actual total number of miles travelled by the estimated capacity or the weight of the heaviest load carried, whichever is larger.³ Gross ton miles performed are determined by adding to the total ton miles performed the weight of the vehicle empty (tare) multiplied by total miles travelled.

TABLE 7. Selected Statistics of Intercity Traffic by Gross Vehicle Weight Groups

Gross vehicle weight	For hire						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton	Total revenue	Revenue per ton mile
	'000 tons	'000	'000	tons	miles	\$'000	¢
10,000 lbs. and under	1,101	4,207	5,605	1.3	5.1	1,195	21.3
10,001-20,000 lbs.	6,016	27,476	86,496	3.1	14.4	15,294	17.7
20,001-30,000 lbs.	19,279	42,661	270,537	6.3	14.0	21,993	8.1
30,001-50,000 lbs.	5,281	28,854	238,865	8.3	45.2	21,409	9.0
50,001 lbs. and over	12,822	112,578	1,483,845	13.2	115.7	92,049	6.2
Total	44,499	215,776	2,085,348	9.7	46.9	151,940	7.3
	Private intercity						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton		
	'000 tons	'000	'000	tons	miles		
10,000 lbs. and under	4,073	150,903	80,638		0.5		19.8
10,001-20,000 lbs.	8,357	60,325	176,698		2.9		21.1
20,001-30,000 lbs.	17,566	51,654	287,424		5.6		16.4
30,001-50,000 lbs.	6,951	25,570	225,762		8.8		32.5
50,001 lbs. and over	9,441	49,758	661,430		13.3		70.1
Total	46,388	338,210	1,431,952		4.2		30.9

SECTION III. INTRAPROVINCIAL TRAFFIC PERFORMED BY ONTARIO REGISTERED TRUCKS
JANUARY 1 - DECEMBER 31, 1957

TABLE 1. Selected Statistics by Gross Vehicle Weight Groups

Gross vehicle weight	For hire						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton	Total revenue	Revenue per ton mile
	'000 tons	'000	'000	tons	miles	\$'000	¢
10,000 lbs. and under	1,050	3,111	4,301	1.4	4.1	926	21.5
10,001-20,000 lbs.	3,438	21,367	69,081	3.2	20.1	10,192	14.8
20,001-30,000 lbs.	12,472	34,732	220,546	6.4	17.7	17,311	7.8
30,001-50,000 lbs.	2,782	19,552	166,324	8.5	59.8	14,600	8.8
50,001 lbs. and over	9,570	76,567	1,012,347	13.2	105.8	66,917	6.6
Total	29,312	155,329	1,472,599	9.5	50.2	109,946	7.5
	Private intercity						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton		
	'000 tons	'000	'000	tons	miles		
10,000 lbs. and under	3,643	133,555	75,646		0.6		20.8
10,001-20,000 lbs.	7,321	55,092	165,446		3.0		22.6
20,001-30,000 lbs.	16,421	46,989	267,512		5.7		16.3
30,001-50,000 lbs.	6,235	22,313	199,895		9.0		33.1
50,001 lbs. and over	8,459	39,294	520,834		13.3		61.6
Total	42,079	297,243	1,229,333		4.1		29.2

TABLE 2. Selected Statistics by Commodity Groups

Commodity classification	For hire						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton	Total revenue	Revenue per ton mile
	'000 tons	'000	'000	tons	miles	\$'000	¢
Agricultural products	1,002	7,987	85,375	10.7	85.2	4,678	5.5
Animals and animal products	1,659	22,745	108,301	4.8	65.3	10,168	9.4
Mine products	15,821	19,448	183,734	9.4	11.6	11,564	6.3
Forest products	550	3,003	29,729	9.9	54.1	2,029	6.8
Manufactures and miscellaneous	8,157	74,126	841,686	11.4	103.2	56,746	6.7
N.O.S. general freight	2,123	28,020	223,774	8.0	105.4	24,761	11.1
Total	29,312	155,329	1,472,599	9.5	50.2	109,946	7.5
	Private intercity						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton		
	'000 tons	'000	'000	tons	miles		
Agricultural products	2,838	22,068	128,128	5.8	45.1		
Animals and animal products	1,834	36,921	100,666	2.7	54.9		
Mine products	19,632	20,372	161,523	7.9	8.2		
Forest products	2,497	14,461	99,169	6.9	39.7		
Manufactures and miscellaneous	14,044	186,457	671,546	3.6	47.8		
N.O.S. general freight	1,234	16,964	68,301	4.0	55.3		
Total	42,079	297,243	1,229,333	4.1	29.2		

SECTION IV. INTERPROVINCIAL AND INTERNATIONAL TRAFFIC PERFORMED BY ONTARIO REGISTERED TRUCKS
JANUARY 1 - DECEMBER 31, 1957

TABLE 1. Tons of Goods Carried

Origin or destination	For hire			Private intercity			Total		
	Into Ontario	Out of Ontario	Total	Into Ontario	Out of Ontario	Total	Into Ontario	Out of Ontario	Total
				'000 tons					
Newfoundland	—	—	—	—	—	—	—	—	—
Prince Edward Island	—	—	—	—	—	—	—	—	—
Nova Scotia	—	—	—	2	—	2	2	—	2
New Brunswick	—	—	—	—	—	—	—	—	—
Quebec	936	926	1,862	175	272	447	1,111	1,198	2,309
Manitoba	29	67	96	56	20	76	85	87	172
Saskatchewan	—	1	1	—	2	2	—	3	3
Alberta	38	43	81	3	7	10	41	50	91
British Columbia	2	5	7	2	3	5	4	8	12
United States	159	134	293	174	75	249	333	209	542
Total	1,164	1,176	2,340	412	379	791	1,576	1,555	3,131

TABLE 2. Selected Statistics by Gross Vehicle Weight Groups

Gross vehicle weight	For hire						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton	Total revenue	Revenue per ton mile
	'000 tons	'000	'000	tons	miles	\$'000	¢
10,000 lbs. and under	—	—	—	—	—	—	—
10,001-20,000 lbs.	6	252	390	1.5	65.7	298	76.3
20,000-30,000 lbs.	25	1,283	7,436	5.8	296.4	555	7.5
30,001-50,000 lbs.	398	13,722	119,554	8.7	300.3	8,840	7.4
50,001 lbs. and over	1,911	53,651	743,009	13.8	388.8	34,822	4.7
Total	2,340	68,908	870,389	12.6	372.0	44,515	5.1
	Private intercity						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton		
	'000 tons	'000	'000	tons	miles		
10,000 lbs. and under	21	2,422	1,276	0.5	60.1		
10,001-20,000 lbs.	60	1,437	4,311	3.0	71.7		
20,001-30,000 lbs.	72	1,840	10,354	5.6	144.5		
30,001-50,000 lbs.	208	4,391	45,551	10.4	218.8		
50,001 lbs. and over	430	14,317	199,505	13.9	463.7		
Total	791	24,407	260,997	10.7	329.8		

TABLE 3. Selected Statistics by Commodity Groups

Commodity classification	For hire						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton	Total revenue	Revenue per ton mile
	'000 tons	'000	'000	tons	miles	\$'000	¢
Agricultural products	91	3,318	45,722	13.8	500.4	1,736	3.8
Animals and animal products	109	7,806	91,497	11.7	841.0	3,540	3.9
Mine products	5	165	1,848	11.2	363.0	86	4.6
Forest products	4	36	437	12.3	118.3	36	8.3
Manufactures and miscellaneous	1,581	41,952	516,692	12.3	326.7	27,032	5.2
N.O.S. general freight	550	15,631	214,193	13.7	389.7	12,085	5.6
Total	2,340	68,908	870,389	12.6	372.0	44,515	5.1
	Private intercity						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton		
	'000 tons	'000	'000	tons	miles		
Agricultural products	88	2,301	22,481	9.8	255.5		
Animals and animal products	77	3,359	32,861	9.8	426.0		
Mine products	4	26	27	1.0	7.5		
Forest products	100	685	9,047	13.2	90.1		
Manufactures and miscellaneous	458	14,024	137,962	9.8	301.0		
N.O.S. general freight	64	4,012	58,619	14.6	915.7		
Total	791	24,407	260,997	10.7	329.8		

**SECTION V. TRAFFIC PERFORMED BY ONTARIO REGISTERED BUSES INSIDE AND OUTSIDE THE PROVINCE
JANUARY 1 – DECEMBER 31, 1957**

TABLE 1. By Passenger Seating Capacity

	0-19	20-29	30-39	40 and over	Total
Mileage:					
Total mileage travelled '000	1,720	3,114	13,463	8,137	26,434
Average yearly mileage per bus	25,300	13,700	25,100	36,300	25,000
Average journey (average distance per passenger)	18.3	25.1	27.5	29.0	27.7
Fuel:					
Total gallons of gasoline consumed '000	229	426	1,475	228	2,358
Miles per gallon of gasoline	7.5	6.6	4.9	4.9	5.5
Total gallons of diesel oil consumed '000	—	32	689	1,010	1,731
Miles per gallon of diesel oil	—	9.7	9.0	6.9	7.8
Total gallons of other fuel consumed '000	—	—	—	—	—
Miles per gallon of other fuel	—	—	—	—	—
Passengers and passenger miles:					
Total number of passengers carried '000	178	1,666	8,386	6,048	16,278
Total number of passenger miles '000	3,256	41,808	230,799	175,246	451,119
Average number of passengers carried per mile	1.9	13.4	17.1	21.5	17.1
Capacity:					
Total capacity seat miles '000	20,004	90,500	524,121	348,452	983,077
Percentage of capacity utilized	16.3	46.2	44.0	50.3	45.9
Revenue:					
Total passenger revenue \$'000	83	926	6,823	4,632	12,464
Revenue per mile (total mileage travelled) ¢	4.8	29.7	50.7	56.9	47.2
Revenue per passenger mile ¢	2.5	2.2	3.0	2.6	2.8
Revenue per bus \$	1,200	4,100	12,700	20,700	11,800

**SECTION VI. TRAFFIC PERFORMED BY ONTARIO REGISTERED BUSES WITHIN THE PROVINCE
JANUARY 1 – DECEMBER 31, 1957**

TABLE 1. By Passenger Seating Capacity

	0-19	20-29	30-39	40 and over	Total
Mileage:					
Total mileage travelled '000	1,720	2,848	12,838	7,998	25,404
Average yearly mileage per bus	25,300	12,500	24,000	35,700	24,100
Average journey (average distance per passenger)	18.3	23.6	26.5	28.5	26.9
Fuel:					
Total gallons of gasoline consumed '000	229	387	1,452	225	2,293
Miles per gallon of gasoline	7.5	6.6	5.0	4.9	5.5
Total gallons of diesel oil consumed '000	—	31	630	900	1,651
Miles per gallon of diesel oil	—	9.8	9.0	7.0	7.8
Total gallons of other fuel consumed '000	—	—	—	—	—
Miles per gallon of other fuel	—	—	—	—	—
Passengers and passenger miles:					
Total number of passengers carried '000	178	1,589	8,261	6,045	16,073
Total number of passenger miles '000	3,266	37,476	218,756	172,387	431,885
Average number of passengers carried per mile	1.9	13.2	17.0	21.6	17.0
Capacity:					
Total capacity seat miles '000	20,004	82,780	471,882	342,397	917,063
Percentage of capacity utilized	16.3	45.3	46.4	50.3	47.1
Revenue:					
Total passenger revenue \$'000	83	808	6,530	4,539	11,960
Revenue per mile (total mileage travelled) ¢	4.8	28.4	50.9	56.8	47.1
Revenue per passenger mile ¢	2.5	2.2	3.0	2.6	2.8
Revenue per bus \$	1,200	3,500	12,200	20,300	11,300

APPENDIX
Sampling Results

Type of operation	0-2½ tons 0-5,000 lbs.	2½-5 tons 5,001-10,000 lbs.	5-7½ tons 10,001-15,000 lbs.	7½-10 tons 15,001-20,000 lbs.	10-15 tons 20,001-30,000 lbs.	Over 15 tons 30,001 lbs. and over	Total
Estimated average Ontario truck population January 1-December 31, 1957							
For hire	108	477	660	2,682	4,653	5,223	13,803
Private:							
Intercity	43,976	11,853	3,040	6,714	5,970	4,290	75,843
Urban	64,026	27,612	6,666	7,938	5,247	2,373	113,862
Farm	46,674	12,285	1,086	1,176	456	—	61,677
Total	154,784	52,227	11,452	18,510	16,326	11,886	265,185
Total number of trucks selected in samples							
For hire	6	53	104	445	1,538	1,708	3,854
Private:							
Intercity	2,415	1,285	488	1,089	1,871	1,335	8,483
Urban	3,517	3,002	1,072	1,285	1,651	747	11,274
Farm	2,562	1,336	175	189	144	—	4,406
Total	8,500	5,676	1,839	3,008	5,204	3,790	28,017
Number of questionnaires returned completed							
For hire	1 ¹	30	55	215	606	1,147	2,054
Private:							
Intercity	1,267	621	240	549	904	764	4,345
Urban	1,827	1,436	525	640	786	420	5,834
Farm	1,333	640	86	98	71	—	2,228
Total	4,428	2,727	906	1,502	2,367	2,331	14,261
Number of sampled trucks reported not in use during survey week							
For hire	3	11	31	126	536	264	971
Private:							
Intercity	499	354	136	317	565	324	2,195
Urban	761	867	300	388	507	191	3,014
Farm	540	371	48	53	42	—	1,054
Total	1,803	1,603	515	884	1,650	779	7,234
Number of questionnaires returned incomplete and unusable							
For hire	1	7	10	66	250	105	439
Private:							
Intercity	391	183	63	113	244	115	1,109
Urban	576	422	143	134	221	62	1,558
Farm	421	196	24	19	18	—	678
Total	1,389	808	240	332	733	282	3,784
Number of questionnaires not returned (non-respondents)							
For hire	1	5	8	38	146	192	390
Private:							
Intercity	258	127	49	110	158	132	834
Urban	353	277	104	123	137	74	1,068
Farm	268	129	17	19	13	—	446
Total	880	538	178	290	454	398	2,738

¹ Statistics appearing in this cell throughout the report are not considered reliable.

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MOTOR TRANSPORT TRAFFIC
PROVINCE OF ONTARIO
1958

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PROVINCE OF ONTARIO
JANUARY 1 - DECEMBER 31, 1958

CHART-1

TRUCK REGISTRATIONS BY TYPE OF OPERATION

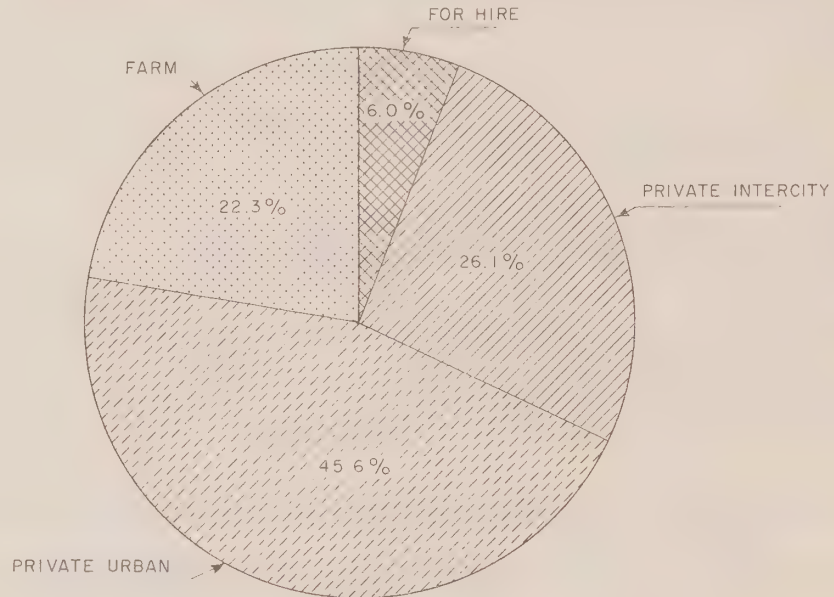
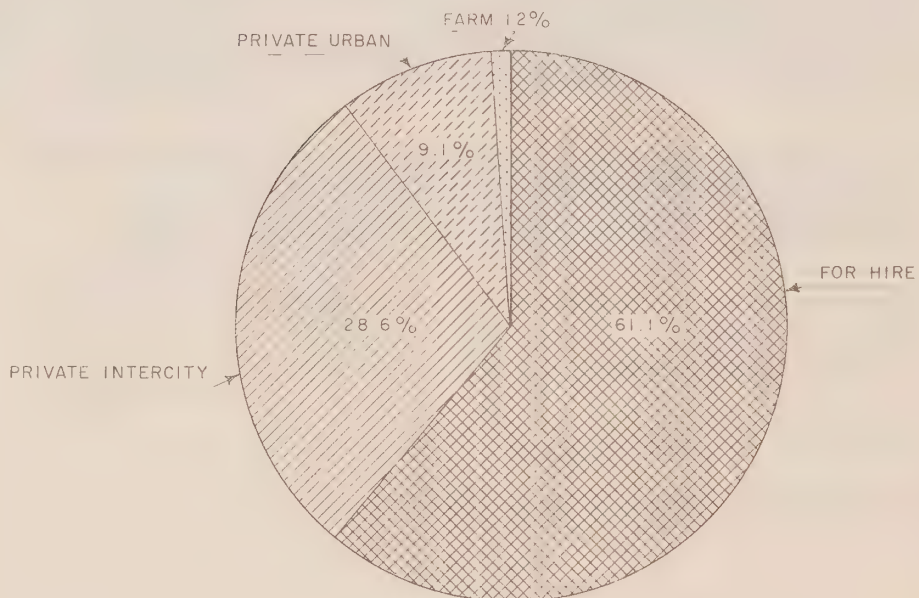


CHART-2

NET TON MILES BY TYPE OF OPERATION



INTRODUCTION

The 1958 annual report of motor transport traffic in the Province of Ontario is based upon a sample of approximately 10 per cent of trucks and 24 per cent of intercity buses registered in the province. To allow for seasonal variations in traffic and to ensure that the selected vehicles represented current registrations, the sample was selected in four quarterly segments with approximately one-fourth of the total selected each quarter. Beginning in the second quarter of 1958, each quarterly sample was spread over three survey weeks with one-third of the sample being used for a seven day period, Sunday through Saturday, per month. Previously each quarterly sample was concentrated in one survey week so that the total sample for the year was spread over only four weeks. Statistics compiled for 1958, therefore, have been based on surveys spread over ten weeks. As a result a much better representation of truck traffic has been obtained.

All trucks and buses registered in the province are represented except: (a) those not engaged in transportation services; (b) buses utilized for scheduled urban transit and school buses; (c) military and other government-owned vehicles. Trailers as such were excluded from the sample, but details of tractor-trailer combinations were obtained by including the power units or tractors in the survey.

Vehicles in the sample are stratified by type of operation and by gross vehicle weight groups. The

four functional categories used are: for-hire, private intercity, private urban and farm. For-hire vehicles are those operated for compensation or gain according to licence; private intercity vehicles are those owned and operated by firms and individuals on intercity routes to transport their own goods; private urban vehicles are those operated predominantly within urban areas; and farm trucks are those operated by farmers primarily to transport farm produce and supplies.

Since intercity for-hire trucks ("P.C.V.'s") are the only class to be registered separately in Ontario, it was necessary to use completed questionnaires to classify privately operated vehicles in the sample as "intercity", "urban" and "farm".

A number of urban trucks are operated for compensation but these vehicles were not included in the for-hire category. As a result, the data shown throughout this report as "for-hire" are understated and those for the "private urban" category are overstated by the extent of those urban for-hire vehicles classified as "private urban".

Further information on the history and the organization of motor transport traffic surveys may be found in the report entitled "Motor Transport Traffic Statistics, National Estimates, 1957".

Expansion of Survey Results

The distribution of sample vehicles by gross vehicle weight groups and by type of operation was used to provide population estimates as at the time of the sample selection. Sample results were then expanded to represent the operations of all trucks registered in the province by multiplying the sample

results by the inverse ratio of the sample to the population and by the ratio of three months to one week. The expanded data for each of the four quarterly segments were added together to obtain annual provincial estimates.

Review of Survey Results

Excluding vehicles which do not perform transportation services, the average number of trucks registered in Ontario during the year was 280,302. Of these 16,763 or 6.0 per cent were for-hire carriers; 73,192 or 26.1 per cent were private intercity vehicles; 127,701 or 45.6 per cent were private vehicles operating predominantly within urban areas; and 62,646 or 22.3 per cent were farm trucks.

In the tables presented herein blanks appear in a number of weight classifications where no vehicles were chosen in any of the quarterly sample selections. It does not necessarily follow that there are no vehicles in the province belonging to these classifications.

Section I: Traffic Inside and Outside the Province

Section 1 contains estimates of total traffic performed by all Ontario registered trucks both inside and outside the province.

Although comprising only 6.0 per cent of Ontario's truck population, for-hire vehicles accounted for 61.1 per cent of total net ton miles and 37.1 per cent of total tons of goods carried during 1958. This results from the high average yearly mileage of these trucks, 31,100 as compared with 8,700 miles for all trucks, and from the heavy average load carried (10.8 tons as compared with 5.1 for all trucks). The heavier loads carried by for-hire trucks are to be expected since almost

three-fourths of these vehicles have a gross weight of over 10 tons. The predominance of heavier vehicles in the for-hire class also explains the low miles per gallon of gasoline estimate of 5.9 as compared with a ratio of 9.3 for all trucks.

Some trucks in Ontario are used essentially for personal transportation. Such vehicles account for about 12 per cent of the total mileage travelled by Ontario registered trucks.

Section II: Traffic Within the Province

This section presents estimates of traffic performed by Ontario registered trucks entirely inside the province and excludes the "outside the province" portion of interprovincial and international traffic as well as any traffic performed entirely outside the province. Comparing the data in Section I and Section II it will be noted that for-hire vehicles accumulated 19.5 per cent and private intercity 12.0 per cent of their total net ton miles outside of Ontario.

Section III: Intraprovincial Traffic

This section includes statistics of for-hire and private intercity operations originating and terminating entirely inside the boundaries of Ontario.

It is estimated that of the total net ton miles performed by for-hire and private intercity trucks,

manufactured products accounted for 54.3 and 59.3 per cent respectively of the commodities carried.

Section IV: Interprovincial and International Traffic

Estimates indicate that almost three-fourths of the total tons of goods carried by Ontario registered for-hire trucks in interprovincial and international traffic was transferred to or from Quebec; and, that approximately one-third of the total net ton miles performed and one-fourth of the revenue earned by for-hire trucks was in interprovincial and international traffic.

Sections V and VI: Intercity Bus Traffic

Section V provides estimates of intercity bus traffic both inside and outside the province while Section VI covers traffic within the province only. Comparing these two sections it is apparent that less than 10 per cent of the total passenger miles performed and 4 per cent of the revenue earned by Ontario registered buses was estimated to be outside the boundaries of the province.

Appendix 1

During the year survey questionnaires were sent to the owners or operators of 27,939 trucks. Of this number 14,196 questionnaires were returned completed and 6,473 trucks were reported not used during the survey week. In addition 3,864 questionnaires were returned with insufficient information. Non-response totalled 3,406 or 12.2 per cent.

Reliability of Motor Transport Traffic Statistics

(a) Non-Sampling Variability

A certain amount of variance in motor transport traffic statistics will arise from non-sampling factors including improper reporting by the respondent due to misinterpretation of questions or deliberate mis-statements. Also, the respondent may not keep accurate records of traffic performed. The effect of these factors cannot be measured without a further follow-up and re-enumeration of the statistics reported.

(b) Sampling Variability

Estimates of the sampling error have, however, been calculated for the following class totals (see Appendix 2): (1) mileage travelled (2) weight of

goods carried (3) net ton miles and (4) revenue earned. These calculations have been made using a confidence limit of two standard deviations (i.e. allowing 95 out of 100 chances that the stated range contains the true value). The stability of the data varies according to the type of statistics involved and the number of trucks reporting in each category. Hence statistics of class totals are considered more reliable than those for any particular weight group. Of the various types of data presented, the most stable statistics are "total mileage travelled" while variability seemed greatest for "weight of goods carried". This is understandable when we consider that trucks may travel with little or no load so that there is a naturally wide range of weight carried.

November 18, 1959.

**SECTION I. TRAFFIC PERFORMED BY ONTARIO REGISTERED TRUCKS INSIDE AND OUTSIDE THE PROVINCE,
JANUARY 1 - DECEMBER 31, 1958**

TABLE 1. All Trucks by Type of Operation

		For hire	Private			Total
			Intercity	Urban	Farm	
Mileage:						
Total mileage travelled.....	'000	520,787	840,255	855,285	231,094	2,447,421
Average yearly mileage per truck		31,100	11,500	6,700	3,700	8,700
Average distance each ton was carried		64.1	40.0	10.9	17.4	38.8
Percentage of total mileage travelled empty		26.9	52.3	46.2	66.5	46.1
Fuel:						
Total gallons of gasoline consumed	'000	71,208	86,145	76,501	16,275	250,129
Miles per gallon of gasoline		5.9	9.4	11.2	14.2	9.3
Total gallons of diesel oil consumed	'000	15,287	3,936	—	—	19,223
Miles per gallon of diesel oil		6.5	6.8	—	—	6.6
Total gallons of other fuel consumed	'000	—	—	—	—	—
Miles per gallon of other fuel		—	—	—	—	—
Weight of goods carried:						
Total tons of goods carried	'000	64,212	48,037	56,373	4,540	173,162
Average weight carried ¹	ton	10.8	4.8	1.3	1.0	5.1
Net ton miles:						
Total net ton miles performed	'000	4,113,548	1,921,561	612,765	79,053	6,726,927
Average net ton miles per truck		245,400	26,300	4,800	1,300	24,000
Capacity ton miles:						
Total capacity ton miles ²	'000	7,992,114	4,656,779	1,904,992	318,011	14,871,896
Average capacity ton miles per truck		476,800	63,600	14,900	5,100	53,100
Percentage of capacity utilized		51.5	41.3	32.2	24.9	45.2
Gross ton miles:						
Total gross ton miles ³	'000	8,094,806	5,060,558	2,652,780	534,569	16,342,713
Average gross ton miles per truck		482,900	69,100	20,800	8,500	58,300
Revenue:						
Total revenue	\$'000	268,155	—	—	—	—
Revenue per ton mile	¢	6.5	—	—	—	—
Revenue per mile (total mileage travelled)	¢	51.5	—	—	—	—
Average revenue per truck	\$	16,000	—	—	—	—
Average annual population		16,763	73,192	127,701	62,646	280,302

TABLE 2. All Trucks by Gross Vehicle Weight Groups

	0-2½ tons 0-5,000 lbs.	2½-5 tons 5,001-10,000 lbs.	5-7½ tons 10,001-15,000 lbs.	7½-10 tons 15,001-20,000 lbs.	10-15 tons 20,001-30,000 lbs.	Over 15 tons 30,001 lbs. and over	Total
Mileage:							
Total mileage travelled.....	'000	988,414	353,750	106,594	203,812	240,091	2,447,421
Average yearly mileage per truck		6,100	6,600	7,600	10,200	15,500	8,700
Average distance each ton was carried		20.2	17.0	14.3	16.8	14.7	38.8
Percentage of total mileage travelled empty		64.3	38.4	33.7	35.3	41.9	46.1
Fuel:							
Total gallons of gasoline consumed.....	'000	66,704	31,204	11,609	25,959	33,603	250,129
Miles per gallon of gasoline		14.8	11.3	9.2	7.9	7.1	9.3
Total gallons of diesel oil consumed.....	'000	—	—	—	—	247	19,223
Miles per gallon of diesel oil		—	—	—	—	6.9	6.6
Total gallons of other fuel consumed.....	'000	—	—	—	—	—	—
Miles per gallon of other fuel		—	—	—	—	—	—
Weight of goods carried:							
Total tons of goods carried	'000	5,293	9,384	8,453	24,838	58,303	173,162
Average weight carried ¹	ton	0.3	0.7	1.7	3.2	6.1	5.1
Net ton miles:							
Total net ton miles performed	'000	106,774	159,312	120,497	417,359	856,675	6,726,927
Average net ton miles per truck		700	3,000	8,600	20,900	55,300	24,000
Capacity ton miles:							
Total capacity ton miles ²	'000	786,763	516,357	349,025	1,066,341	1,946,934	14,871,896
Average capacity ton miles per truck		4,900	9,600	24,900	53,300	125,700	53,100
Percentage of capacity utilized		13.6	30.9	34.5	39.1	44.0	45.2
Gross ton miles:							
Total gross ton miles ³	'000	1,699,880	947,895	482,262	1,241,912	2,037,210	16,342,713
Average gross ton miles per truck		10,500	17,600	34,400	62,100	131,500	58,300
Average annual population		161,478	54,009	14,024	20,008	15,492	280,302

TABLE 3. Selected Statistics by Gross Vehicle Weight Groups

Gross vehicle weight	For hire						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton	Total revenue	Revenue per ton mile
	'000 tons	'000	'000	tons	miles	\$'000	¢
20,000 lbs. and under	5,664	37,526	113,253	3.0	20.0	18,419	16.3
20,001-30,000 lbs.	24,708	52,851	369,930	7.0	15.0	28,897	7.8
30,001-50,000 lbs.	9,853	52,115	442,488	8.5	44.9	34,981	7.9
50,001 lbs. and over	23,987	238,057	3,187,877	13.4	132.9	185,858	5.8
Total	64,212	380,549	4,113,548	10.8	64.1	268,155	6.5
	Private intercity						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton		
	'000 tons	'000	'000	tons	miles		
10,000 lbs. and under	3,418	168,107	91,130	0.5	26.7		
10,001-20,000 lbs.	10,161	77,372	214,801	2.8	21.1		
20,001-30,000 lbs.	14,061	54,614	314,308	5.8	22.4		
30,001-50,000 lbs.	5,576	24,297	211,350	8.7	37.9		
50,001 lbs. and over	14,821	76,374	1,089,972	14.3	73.5		
Total	48,037	400,764	1,921,561	4.8	40.0		

**SECTION II. TRAFFIC PERFORMED BY ONTARIO REGISTERED TRUCKS WITHIN THE PROVINCE
JANUARY 1 - DECEMBER 31, 1958**

TABLE 1. All Trucks by Type of Operation

		For hire	Private			Total
			Intercity	Urban	Farm	
Mileage:						
Total mileage travelled	'000	451,369	803,758	855,285	231,094	2,341,506
Average yearly mileage per truck		26,900	11,000	6,700	3,700	8,400
Average distance each ton was carried		52.2	35.8	10.9	17.4	33.2
Percentage of total mileage travelled empty		29.1	53.0	46.2	66.5	47.3
Fuel:						
Total gallons of gasoline consumed	'000	65,434	80,478	76,501	16,275	238,688
Miles per gallon of gasoline		5.9	9.8	11.2	14.2	9.5
Total gallons of diesel oil consumed	'000	9,458	2,427	—	—	11,885
Miles per gallon of diesel oil		6.7	7.1	—	—	6.8
Total gallons of other fuel consumed	'000	—	—	—	—	—
Miles per gallon of other fuel		—	—	—	—	—
Weight of goods carried:						
Total tons of goods carried	'000	63,407	47,226	56,373	4,540	171,546
Average weight carried ¹	ton	10.4	4.5	1.3	1.0	4.6
Net ton miles:						
Total net ton miles performed	'000	3,311,369	1,691,316	612,765	79,053	5,694,503
Average net ton miles per truck		197,500	23,100	4,800	1,300	20,300
Capacity ton miles:						
Total capacity ton miles ²	'000	6,783,497	4,225,981	1,904,992	318,011	13,232,481
Average capacity ton miles per truck		404,700	57,700	14,900	5,100	47,200
Percentage of capacity utilized		48.8	40.0	32.2	24.9	43.0
Gross ton miles:						
Total gross ton miles ³	'000	6,694,499	4,600,172	2,652,780	534,569	14,482,020
Average gross ton miles per truck		399,400	62,900	20,800	8,500	51,700
Revenue:						
Total revenue	\$'000	229,582	—	—	—	—
Revenue per ton mile	¢	6.9	—	—	—	—
Revenue per mile (total mileage travelled)	¢	50.9	—	—	—	—
Average revenue per truck	\$	13,700	—	—	—	—
Average annual population		16,763	73,192	127,701	62,646	280,302

TABLE 2. All Trucks by Gross Vehicle Weight Groups

	0-2½ tons 0-5,000 lbs.	2½-5 tons 5,001-10,000 lbs.	5-7½ tons 10,001-15,000 lbs.	7½-10 tons 15,001-20,000 lbs.	10-15 tons 20,001-30,000 lbs.	Over 15 tons 30,001 lbs. and over	Total
Mileage:							
Total mileage travelled '000	980,156	352,269	105,645	200,013	229,591	473,832	2,341,506
Average yearly mileage per truck	6,100	6,500	7,500	10,000	14,800	31,000	8,400
Average distance each ton was carried	20.1	16.9	14.2	16.6	13.7	62.4	33.2
Percentage of total mileage travelled empty	64.2	38.3	33.8	35.8	42.4	29.1	47.3
Fuel:							
Total gallons of gasoline consumed..... '000	66,142	31,099	11,521	25,523	32,087	72,316	238,688
Miles per gallon of gasoline	14.8	11.3	9.2	7.8	7.1	5.4	9.5
Total gallons of diesel oil consumed..... '000	—	—	—	—	86	11,799	11,885
Miles per gallon of diesel oil	—	—	—	—	6.8	6.8	6.8
Total gallons of other fuel consumed..... '000	—	—	—	—	—	—	—
Miles per gallon of other fuel	—	—	—	—	—	—	—
Weight of goods carried:							
Total tons of goods carried '000	5,283	9,384	8,440	24,441	58,151	65,847	171,546
Average weight carried ¹ ton	0.3	0.7	1.7	3.2	6.0	12.2	4.6
Net ton miles:							
Total net ton miles performed '000	106,301	158,779	119,697	405,849	793,903	4,109,974	5,694,503
Average net ton miles per truck	700	2,900	8,500	20,300	51,200	268,800	20,300
Capacity ton miles:							
Total capacity ton miles ² '000	780,507	514,373	346,287	1,042,933	1,848,586	8,699,795	13,232,481
Average capacity ton miles per truck	4,800	9,500	24,700	52,100	119,300	568,900	47,200
Percentage of capacity utilized	13.6	30.9	34.6	38.9	42.9	47.2	43.0
Gross ton miles:							
Total gross ton miles ³ '000	1,686,867	944,224	478,353	1,214,212	1,912,806	8,245,558	14,482,020
Average gross ton miles per truck	10,400	17,500	34,100	60,700	123,500	539,200	51,700
Average annual population	161,478	54,009	14,024	20,008	15,492	15,291	280,302

¹ Ton miles divided by miles travelled with load.² Capacity ton miles are determined by multiplying the actual number of miles travelled by the estimated capacity or the weight of the heaviest load carried, whichever is larger.³ Gross ton miles performed are determined by adding to the total ton miles performed, the weight of the vehicle empty (tare) multiplied by total miles travelled.

SECTION III. INTRAPROVINCIAL TRAFFIC PERFORMED BY ONTARIO REGISTERED TRUCKS JANUARY 1 — DECEMBER 31, 1958

TABLE 1. Selected Statistics of Intercity Traffic by Gross Vehicle Weight Groups

Gross vehicle weight	For hire						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton	Total revenue	Revenue per ton mile
	'000 tons	'000	'000	tons	miles	\$'000	¢
20,000 lbs. and under	3,928	25,914	84,401	3.3	21.5	11,955	14.2
20,001-30,000 lbs.	16,880	38,716	252,825	6.5	15.0	19,085	7.5
30,001-50,000 lbs.	5,858	29,706	239,615	8.1	40.9	21,112	8.8
50,001 lbs. and over	18,089	140,632	1,811,751	12.9	100.2	118,931	6.6
Total	44,755	234,968	2,388,592	10.2	53.4	171,083	7.2
	Private intercity						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton		
	'000 tons	'000	'000	tons	miles		
10,000 lbs. and under	3,053	149,537	84,839		0.6		27.8
10,001-20,000 lbs.	8,639	69,158	196,447		2.8		22.7
20,001-30,000 lbs.	12,577	47,728	275,585		5.8		21.9
30,001-50,000 lbs.	4,671	17,157	151,678		8.8		32.5
50,001 lbs. and over	12,443	53,492	768,793		14.4		61.8
Total	41,383	337,072	1,477,342		4.4		35.7

TABLE 2. Selected Statistics of Intercity Traffic by Commodity Groups

Commodity classification	For hire						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton	Total revenue	Revenue per ton mile
	'000 tons	'000	'000	tons	miles	\$'000	¢
Agricultural products	1,304	9,982	126,321	12.7	96.9	6,694	5.3
Animals and animal products	2,088	27,498	144,750	5.3	69.3	13,392	9.3
Mine products	21,151	26,961	280,225	10.4	13.2	16,266	5.8
Forest products	980	4,318	43,807	10.1	44.7	3,372	7.7
Manufactures and miscellaneous	12,982	110,243	1,296,084	11.8	99.8	83,618	6.5
N.O.S. general freight	6,250	55,966	497,405	8.9	79.6	47,741	9.6
Total	44,755	234,968	2,388,592	10.2	53.4	171,083	7.2
	Private intercity						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton		
	'000 tons	'000	'000	tons	miles		
Agricultural products	2,688	24,156	146,722	6.1	54.6		
Animals and animal products	2,049	43,395	117,653	2.7	57.4		
Mine products	15,148	20,160	170,094	8.4	11.2		
Forest products	2,410	13,900	110,854	8.0	46.0		
Manufactures and miscellaneous	17,417	209,289	875,477	4.2	50.3		
N.O.S. general freight	1,671	26,172	56,542	2.2	33.8		
Total	41,383	337,072	1,477,342	4.4	35.7		

SECTION IV. INTERPROVINCIAL AND INTERNATIONAL TRAFFIC PERFORMED BY ONTARIO REGISTERED TRUCKS
JANUARY 1 - DECEMBER 31, 1958

TABLE 1. Tons of Goods Carried by Province of Origin and Destination

Origin and destination	For hire			Private intercity			Total		
	Into Ontario	Out of Ontario	Total	Into Ontario	Out of Ontario	Total	Into Ontario	Out of Ontario	Total
	'000 tons								
Newfoundland	—	—	—	—	—	—	—	—	—
Prince Edward Island	—	—	—	—	—	—	—	—	—
Nova Scotia	—	7	7	—	3	3	—	10	10
New Brunswick	5	—	5	—	—	—	5	—	5
Quebec	1,015	993	2,008	353	407	760	1,368	1,400	2,768
Manitoba	51	82	133	22	12	34	73	94	167
Saskatchewan	—	9	9	—	1	1	—	10	10
Alberta	107	98	205	7	7	14	114	105	219
British Columbia	—	2	2	1	—	1	1	2	3
Yukon and Northwest Territories	—	—	—	—	—	—	—	—	—
United States	213	149	362	201	229	430	414	378	792
Total	1,391	1,340	2,731	584	659	1,243	1,975	1,999	3,974

TABLE 2. Selected Statistics by Commodity Groups

Commodity classification	For hire						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton	Total revenue	Revenue per ton mile
	'000 tons	'000	'000	tons	miles	\$'000	¢
Agricultural products	122	4,957	66,385	13.4	544.5	2,808	4.2
Animals and animal products	137	12,534	150,342	12.0	1,100.6	5,930	3.9
Mine products	54	425	7,762	18.3	142.5	615	7.9
Forest products	49	797	7,396	9.3	149.9	942	12.7
Manufactures and miscellaneous	1,352	49,816	600,812	12.1	444.6	31,256	5.2
N.O.S. general freight	1,017	38,172	527,377	13.8	518.5	26,356	5.0
Total	2,731	106,701	1,360,074	12.7	498.0	67,907	5.0
	Private intercity						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton		
	'000 tons	'000	'000	tons	miles		
Agricultural products	89	3,416	36,988	10.8	416.3		
Animals and animal products	106	3,146	31,042	9.9	293.4		
Mine products	—	—	—	—	—		
Forest products	93	1,120	17,272	15.4	186.5		
Manufactures and miscellaneous	774	19,240	185,451	9.6	239.5		
N.O.S. general freight	181	5,090	37,840	7.4	209.2		
Total	1,243	32,012	308,593	9.6	248.3		

SECTION V. TRAFFIC PERFORMED BY ONTARIO REGISTERED BUSES INSIDE AND OUTSIDE THE PROVINCE,
JANUARY 1 — DECEMBER 31, 1958

TABLE 1. By Passenger Seating Capacity

	0-19	20-29	30-39	40 and over	Total
Mileage:					
Total mileage travelled..... '000	1,299	2,208	7,852	10,485	21,844
Average yearly mileage per bus.....	21,600	13,100	18,000	39,700	23,500
Average journey (average distance per passenger)	39.9	21.7	34.1	29.6	30.3
Fuel:					
Total gallons of gasoline consumed..... '000	143	287	647	307	1,384
Miles per gallon of gasoline	9.1	7.7	5.1	4.4	5.9
Total gallons of diesel oil consumed	—	—	637	1,188	1,825
Miles per gallon of diesel oil	—	—	7.1	7.7	7.5
Total gallons of other fuel consumed	—	—	—	—	—
Miles per gallon of other fuel.....	—	—	—	—	—
Passengers and passenger miles:					
Total number of passengers carried	125	1,658	4,519	7,130	13,432
Total number of passenger miles.....	4,998	36,053	154,291	211,327	406,669
Average number of passengers carried per mile	3.8	16.3	19.7	20.2	18.6
Capacity:					
Total capacity seat miles..... '000	14,822	57,586	287,236	459,540	819,184
Percentage of capacity utilized.....	33.7	62.6	53.7	46.0	49.6
Revenue:					
Total passenger revenue..... \$'000	295	544	3,666	5,936	10,441
Revenue per mile (total mileage travelled)	¢ 22.7	24.6	46.7	56.6	47.8
Revenue per passenger mile.....	¢ 5.9	1.5	2.4	2.8	2.6
Revenue per bus..... \$	4,900	3,200	8,400	22,500	11,300

SECTION VI. TRAFFIC PERFORMED BY ONTARIO REGISTERED BUSES WITHIN THE PROVINCE
JANUARY 1 — DECEMBER 31, 1958

TABLE 1. By Passenger Seating Capacity

	0-19	20-29	30-39	40 and over	Total
Mileage:					
Total mileage travelled '000	1,260	2,208	7,218	10,300	20,986
Average yearly mileage per bus	21,000	13,100	16,600	39,000	22,600
Average journey (average distance per passenger)	38.1	21.7	27.2	29.8	28.0
Fuel:					
Total gallons of gasoline consumed '000	140	287	581	302	1,310
Miles per gallon of gasoline	9.0	7.7	5.1	4.4	5.9
Total gallons of diesel oil consumed '000	—	—	589	1,158	1,747
Miles per gallon of diesel oil	—	—	7.2	7.7	7.6
Total gallons of other fuel consumed 000	—	—	—	—	—
Miles per gallon of other fuel	—	—	—	—	—
Passengers and passenger miles:					
Total number of passengers carried '000	125	1,658	4,446	6,967	13,196
Total number of passenger miles '000	4,763	36,053	120,877	207,764	369,457
Average number of passengers carried per mile	3.8	16.3	16.7	20.2	17.6
Capacity:					
Total capacity seat miles '000	14,354	57,586	264,331	451,898	788,169
Percentage of capacity utilized	33.2	62.6	45.7	46.0	46.9
Revenue:					
Total passenger revenue \$'000	272	544	3,378	5,836	10,030
Revenue per mile (total mileage travelled) ¢	21.6	24.6	46.8	56.7	47.8
Revenue per passenger mile ¢	5.7	1.5	2.8	2.8	2.7
Revenue per bus \$	4,500	3,200	7,700	22,100	10,800

Appendix 1

	A. Population						
	0-2½ tons 0-5,000 lbs.	2½-5 tons 5,001-10,000 lbs.	5-7½ tons 10,001-15,000 lbs.	7½-10 tons 15,001-20,000 lbs.	10-15 tons 20,001-30,000 lbs.	Over 15 tons 30,001 lbs. and over	Total
Estimated average Ontario truck population January 1 — December 31, 1958							
For hire	128	678	797	2,645	4,364	8,151	16,763
Private:							
Intercity	40,675	11,527	3,531	6,953	5,775	4,731	73,192
Urban	74,537	28,697	8,137	9,137	4,784	2,409	127,701
Farm	46,138	13,107	1,559	1,273	569	—	62,646
Total	161,478	54,009	14,024	20,008	15,492	15,291	280,302
	B. Survey Response						
	Total number of trucks selected in samples	Number of questionnaires returned completed	Number of sampled trucks reported not in use during survey week	Number of questionnaires not returned or returned incomplete and unusable			
For hire	3,630	1,928	586	1,116			
Private:							
Intercity	8,000	4,008	2,053	1,939			
Urban	11,931	5,985	2,842	3,104			
Farm	4,378	2,275	992	1,111			
Total	27,939	14,196	6,473	7,270			

Appendix 2. Reliability of Motor Transport Traffic Statistics

	Number of trucks reporting (1)	Survey estimates (2)	Sampling variability (Two standard deviations)		Range Col. 2 plus and minus col. 3	
			Size (3)	Per cent of col. 2 (4)	Lower limit (5)	Upper limit (6)
		'000	'000		'000	'000
A. Traffic performed within the province¹						
Total mileage travelled						
		miles	miles		miles	miles
For hire	1,894	451,369	14,444	3.2	436,925	465,813
Private:						
Intercity	3,962	803,758	22,505	2.8	781,253	826,263
Urban	5,985	855,285	22,237	2.6	833,048	877,522
Farm	2,275	231,094	9,706	4.2	221,388	240,800
Total	14,116	2,341,506	32,781	1.4	2,308,725	2,374,287
Weight of goods carried						
		tons	tons		tons	tons
For hire	1,874	63,407	4,565	7.2	58,842	67,972
Private:						
Intercity	3,077	47,226	3,400	7.2	43,826	50,626
Urban	4,563	56,373	3,044	5.4	53,329	59,417
Farm	1,655	4,540	436	9.6	4,104	4,976
Total	11,169	171,546	6,176	3.6	165,370	177,722
Net ton miles						
		net ton miles	net ton miles		net ton miles	net ton miles
For hire	1,874	3,311,369	152,323	4.6	3,159,046	3,463,692
Private:						
Intercity	3,077	1,691,316	71,035	4.2	1,620,281	1,762,351
Urban	4,563	612,765	24,511	4.0	588,254	637,276
Farm	1,655	79,053	9,961	12.6	69,092	89,014
Total	11,169	5,694,503	159,446	2.8	5,535,057	5,853,949
Revenue earned						
		\$	\$		\$	\$
For hire	1,874	229,582	9,642	4.2	219,940	239,224
B. Interprovincial and international traffic						
Weight of goods carried						
		tons	tons		tons	tons
For hire	233	2,731	218	8.0	2,513	2,949
Private:						
Intercity	164	1,243	271	21.8	972	1,514
Net ton miles						
		net ton miles	net ton miles		net ton miles	net ton miles
For hire	233	1,360,074	119,687	8.8	1,240,387	1,479,761
Private:						
Intercity	164	308,593	58,633	19.0	249,960	367,226

¹ Estimates for traffic "inside and outside the province" are considered to be more reliable while the estimates for "intraprovincial" traffic should be equally reliable.

Note: The chances are 95 out of 100 that the range (sample estimate \pm sampling variability) contains the true value. Consider "total mileage travelled" by for-hire trucks. It can be assumed that the computed figure, 451,369,000 miles, will not be more than 14,444,000 miles (plus or minus 3.2 per cent of 451,369,000) away from the "true" value in 95 out of 100 cases. In other words, the chances are 95 out of 100 that the true value will fall within a range of 436,925,000 to 465,813,000.

CATALOGUE No.

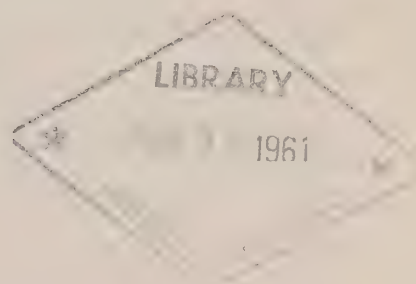
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MOTOR TRANSPORT TRAFFIC
PROVINCE OF ONTARIO
1959



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PROVINCE OF ONTARIO
JANUARY 1-DECEMBER 31, 1959

CHART-1

TRUCK REGISTRATIONS BY TYPE OF OPERATION

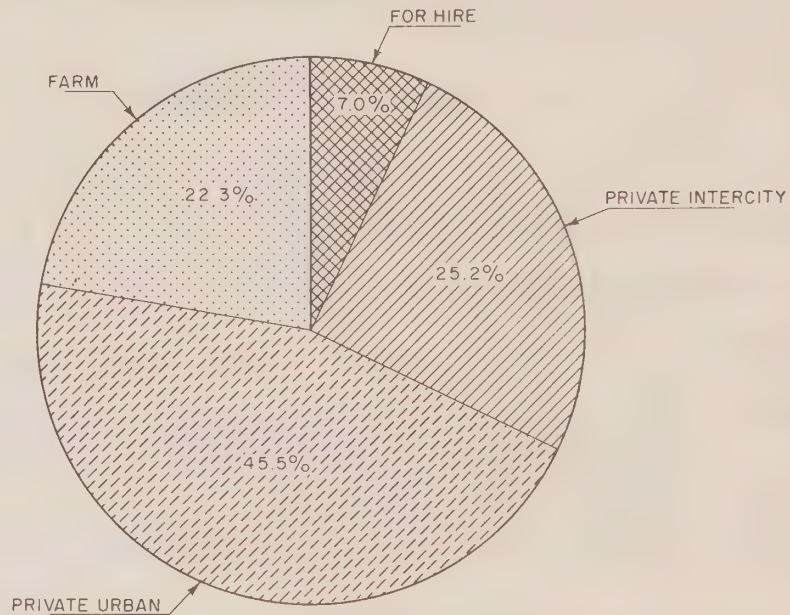
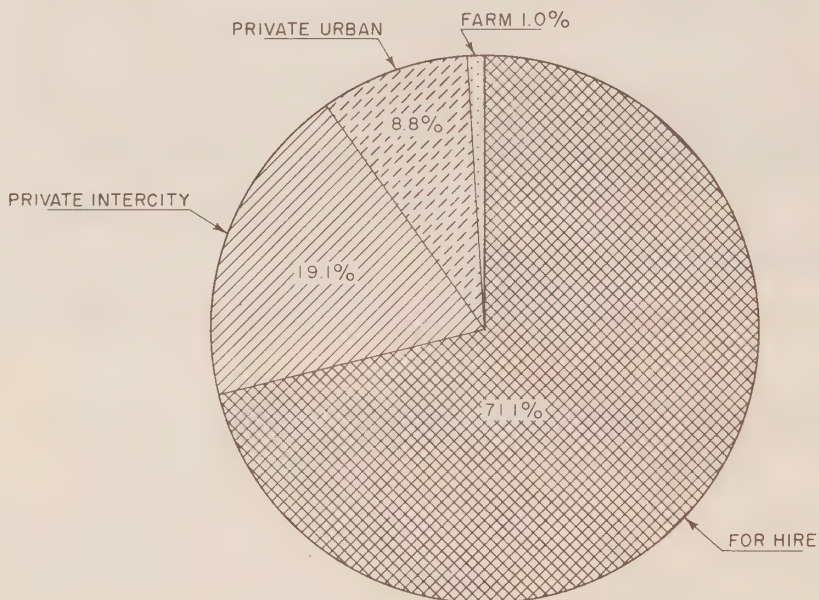


CHART-2

NET TON MILES BY TYPE OF OPERATION



INTRODUCTION

The 1959 annual report of motor transport traffic in the Province of Ontario is based upon a sample of approximately 11 per cent of trucks registered in the province. To allow for seasonal variations in traffic and to ensure that the selected vehicles represented current registrations the sample was selected in four quarterly segments with approximately one fourth of the total selected each quarter. Each quarterly sample was spread over three survey weeks with one third of the sample being used for a seven day period, Sunday through Saturday, per month. The surveys were therefore spread over twelve weeks during the year.

All trucks registered in the province are represented except: (a) those not engaged in transportation services; and (b) military and other government-owned vehicles. Trailers as such were excluded from the sample, but details of tractor-trailer combinations were obtained by including the power units or tractors in the survey.

Prior to 1959 a sample survey of intercity buses was conducted in conjunction with the truck traffic survey. However, it was not possible to survey buses in all provinces and, as some traffic data are also collected for the annual publication "Passenger Bus Statistics", catalogue no. 53-215, it was decided to discontinue the sample survey of buses for the present.

Vehicles in the sample are stratified by type of operation and by gross vehicle weight group. The four functional categories used are: for hire, private intercity, private urban and farm. For hire vehicles are those operated for compensation or gain according to licence; private intercity vehicles are those owned and operated by firms and individuals on intercity routes to transport their own goods;

private urban vehicles are those operated only within urban areas; and farm trucks are those operated by farmers primarily to transport farm produce and supplies.

Since intercity for hire trucks ("P.C.V.'s") are the only class to be registered separately in Ontario, it is necessary to use completed questionnaires to classify privately operated vehicles in the sample as "intercity", "urban" and "farm".

In this report vehicles have been basically classified into four functional categories as follows:

For hire	—Public Commercial Vehicles (P.C.V.) operated for compensation beyond urban areas.
Private intercity	—Private non-farm trucks operated beyond urban areas.
Private urban	—Private and commercial vehicles operated only within urban areas.
Farm	—Trucks owned and operated by farmers.

A number of urban trucks are operated for compensation but these vehicles were not included in the for hire category. As a result, the data shown throughout this report as "for hire" are understated and those for the "private urban" category are overstated by the extent of those urban for hire vehicles classified as "private urban".

Further information on the history and the organization of motor transport traffic surveys may be found in the reports entitled "Motor Transport Traffic, National Estimates", catalogue no. 53-207, for 1957 and 1958.

Expansion of Survey Results

Prior to 1959 the distribution of sample vehicles by gross vehicle weight group and by type of operation was used to provide population estimates as at the time of the sample selection. Sample results were then expanded to represent the operations of all trucks registered in the province by multiplying the sample results by the inverse ratio of the sample to the population and by the ratio of three months to one week. The expanded data for each of the four quarterly segments were added together to obtain annual provincial estimates.

To improve the accuracy of the provincial estimates, it was decided to use, for 1959, the peak

registration population in calculating the blow-up factor rather than the population as at four different periods during the year.

Unfortunately time has not permitted calculations of the reliability of these estimates similar to those published in the 1958 report. It should also be noted that the section dealing exclusively with trips originating and terminating within the province has been omitted from this report for the purposes of simplification.

Review of Survey Results

The estimated population of trucks performing transportation services in Ontario during the year rose 1.2 per cent to 283,615 from 280,302 in 1958. Of these 19,755 or 7.0 per cent were for hire trucks; 71,447 or 25.2 per cent were private intercity vehicles; 129,087 or 45.5 per cent were private vehicles operating wholly within urban areas; and 63,326 or 22.3 per cent were farm trucks.

The increase in the for hire category's share of the total number of trucks and the corresponding decrease in the share of private intercity vehicles is largely due to the inclusion in the for hire category of certain trucks operating outside urban areas which, while according to our records did not have P.C.V. vehicle licences, belonged to trucking companies which had P.C.V. operating licences. The vehicles affected were mainly heavy trucks operating in international and interprovincial traffic. In previous years these vehicles were considered as private intercity.

In the following tables, blanks appear for some breakdowns of diesel fuel and other fuel by type of operation and by gross vehicle weight. In most of these instances no vehicles were chosen belonging to these classifications in any of the quarterly sample selections. However in one or two cases a few vehicles were selected but the data collected were considered too unreliable to publish. Even where no vehicles were selected it does not necessarily follow that there were no vehicles in the province belonging to these classifications.

Section I: Traffic Inside and Outside the Province

Section I contains estimates of total traffic performed both inside and outside the province by Ontario registered trucks.

Although comprising only 7.0 per cent of Ontario's truck population, for hire vehicles accounted for 71.1 per cent of the total net ton miles and 43.2 per cent of the total tons of goods carried during 1959. This results from the high average

yearly mileage of these trucks, 28,100 miles as compared with 8,100 miles for all trucks, and from the heavy average load carried of 11.0 tons compared to 5.3 tons for all trucks. Since three quarters of all for hire vehicles have a gross vehicle weight of over 10 tons the heavier loads carried by these trucks are to be expected. The predominance of heavier vehicles in the for hire class also explains the low estimate of miles per gallon of gasoline, 5.8 compared with 9.4 for all trucks.

It is estimated that less than 3 per cent of the total net ton miles performed by Ontario registered for hire trucks were in urban operations.

Some trucks in Ontario under 10,000 lb. gross vehicle weight are used essentially for personal transportation. Such vehicles accounted for about 12 per cent of the total mileage travelled by Ontario registered trucks.

Section II: Traffic Within the Province

This section presents estimates of traffic performed by Ontario registered trucks entirely inside the province and excludes the "outside the province" portion of interprovincial and international traffic as well as any traffic performed entirely outside the province. Comparing the data in Section I and Section II it will be noted that for hire vehicles accumulated 26.6 per cent and private intercity 8.5 per cent of their total net ton miles outside Ontario.

Section III: Interprovincial and International Traffic

Interprovincial and international traffic accounted for a significant proportion of the total traffic performed by for hire vehicles, representing approximately one third of the total net ton miles performed and one fourth of the revenue earned by these vehicles. Over three fifths of the total tons of goods carried in this type of traffic by Ontario registered for hire trucks was transported to or from Quebec and one fifth to or from the United States.

Appendix

During the year survey questionnaires were sent to the owners or operators of 31,566 trucks. Of this number 14,575 were returned completed and

8,429 trucks were reported not used during the survey week. The remaining 8,562 were either returned incomplete and unusable or not returned at all.

June 13, 1961

**SECTION I. TRAFFIC PERFORMED BY ONTARIO REGISTERED TRUCKS INSIDE AND OUTSIDE THE PROVINCE
JANUARY 1 – DECEMBER 31, 1959**

TABLE 1. All Trucks by Type of Operation

	For hire	Private			Total
		Intercity	Urban	Farm	
Mileage:					
Total mileage travelled	'000	555,471	765,445	765,448	2,086,364
Average yearly mileage per truck		28,100	10,700	5,900	8,100
Average distance each ton was carried		64.5	31.9	11.3	39.2
Percentage of total mileage travelled empty		26.2	57.4	47.9	47.5
Fuel:					
Total gallons of gasoline consumed	'000	72,673	71,880	67,823	211,376
Miles per gallon of gasoline		5.8	10.4	11.3	9.4
Total gallons of diesel oil consumed	'000	23,456	3,201	—	26,657
Miles per gallon of diesel oil		5.7	5.7	—	5.7
Total gallons of other fuel consumed	'000	—	—	—	—
Miles per gallon of other fuel		—	—	—	—
Weight of goods carried:					
Total tons of goods carried	'000	69,809	38,055	49,467	157,331
Average weight carried ¹	ton	11.0	3.7	1.4	5.3
Net ton miles:					
Total net ton miles performed	'000	4,503,558	1,212,671	558,059	6,274,288
Average net ton miles per truck		228,000	17,000	4,300	22,300
Capacity ton miles:					
Total capacity ton miles ²	'000	8,022,557	3,118,865	1,615,600	12,757,022
Average capacity ton miles per truck		406,100	43,700	12,500	45,900
Percentage of capacity utilized		56.1	38.9	34.5	48.7
Gross ton miles:					
Total gross ton miles ³	'000	9,532,777	3,885,984	2,329,612	15,748,373
Average gross ton miles per truck		482,600	54,400	18,000	57,100
Revenue:					
Total revenue	\$'000	287,439	—	—	—
Revenue per ton mile	¢	6.4	—	—	—
Revenue per mile (total mileage travelled)	¢	51.7	—	—	—
Average revenue per truck	\$	14,600	—	—	—
Estimated annual population		19,755	71,447	129,087	280,289

TABLE 2. All Trucks by Gross Vehicle Weight Group

	0-2½ tons 0-5,000 lb.	2½-5 tons 5,001-10,000 lb.	5-7½ tons 10,001-15,000 lb.	7½-10 tons 15,001-20,000 lb.	10-15 tons 20,001-30,000 lb.	Over 15 tons 30,001 lb. and over	Total
Mileage:							
Total mileage travelled	'000	948,025	318,621	98,637	174,427	244,599	2,086,364
Average yearly mileage per truck		5,800	5,800	7,000	8,600	15,600	8,100
Average distance each ton was carried		18.2	19.7	15.2	14.7	14.3	39.2
Percentage of total mileage travelled empty		69.2	36.2	30.0	33.0	41.9	47.5
Fuel:							
Total gallons of gasoline consumed	'000	63,319	28,215	10,387	22,674	34,835	219,410
Miles per gallon of gasoline		15.0	11.3	9.5	7.7	7.0	9.4
Total gallons of diesel oil consumed	'000	—	—	—	—	—	26,657
Miles per gallon of diesel oil		—	—	—	—	—	5.7
Total gallons of other fuel consumed	'000	—	—	—	—	—	—
Miles per gallon of other fuel		—	—	—	—	—	—
Weight of goods carried:							
Total tons of goods carried	'000	4,771	7,535	7,253	23,690	58,427	101,776
Average weight carried ¹	ton	0.3	0.7	1.6	3.0	5.9	5.3
Net ton miles:							
Total net ton miles performed	'000	86,985	148,177	110,452	348,539	832,686	1,526,299
Average net ton miles per truck		500	2,700	7,800	17,200	53,000	22,300
Capacity ton miles:							
Total capacity ton miles ²	'000	760,005	476,409	330,468	922,346	1,938,521	12,757,022
Average capacity ton miles per truck		4,700	8,700	23,300	45,500	123,400	45,900
Percentage of capacity utilized		11.4	31.1	33.4	37.8	43.0	48.7
Gross ton miles:							
Total gross ton miles ³	'000	1,583,177	862,436	449,917	1,057,102	1,977,240	15,748,373
Average gross ton miles per truck		9,700	15,800	31,800	52,100	125,900	57,100
Estimated annual population		163,252	54,694	14,163	20,284	15,705	280,289

TABLE 3. Selected Statistics by Gross Vehicle Weight Group

Gross vehicle weight	For hire						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton	Total revenue	Revenue per ton mile
	'000 tons	'000	'000	tons	miles	\$'000	¢
20,000 lb. and under	7,568	40,157	117,282	2.9	15.5	20,978	17.9
20,001-30,000 lb.	27,778	55,827	360,453	6.5	13.0	30,836	8.6
30,001-50,000 lb.	10,050	58,798	502,864	8.6	50.0	42,923	8.5
50,001 lb. and over	24,413	255,341	3,522,959	13.8	144.3	192,702	5.5
Totals	69,809	410,123	4,503,558	11.0	64.5	287,439	6.4
	Private intercity						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton		
	'000 tons	'000	'000	tons	miles		
10,000 lb. and under	2,677	152,126	78,659	0.5	29.4		
10,001-20,000 lb.	7,698	68,993	164,424	2.4	21.4		
20,001-30,000 lb.	15,164	54,844	304,278	5.5	20.1		
30,001-50,000 lb.	4,267	14,769	135,685	9.2	31.8		
50,001 lb. and over	8,249	35,553	529,625	14.9	64.2		
Totals	38,055	326,285	1,212,671	3.7	31.9		

SECTION II. TRAFFIC PERFORMED BY ONTARIO REGISTERED TRUCKS WITHIN THE PROVINCE
JANUARY 1 - DECEMBER 31, 1959

TABLE 4. All Trucks by Type of Operation

		For hire	Private			Total
			Intercity	Urban	Farm	
Mileage:						
Total mileage travelled	'000	450,297	748,045	765,448	200,110	2,163,900
Average yearly mileage per truck		22,800	10,500	5,900	3,200	7,600
Average distance each ton was carried		47.9	29.3	11.3	15.1	31.4
Percentage of total mileage travelled empty		29.4	57.9	47.9	66.9	49.3
Fuel:						
Total gallons of gasoline consumed	'000	65,134	70,139	67,823	14,512	217,608
Miles per gallon of gasoline		5.9	10.5	11.3	13.8	9.6
Total gallons of diesel oil consumed	'000	12,042	2,304	—	—	14,346
Miles per gallon of diesel oil		5.6	5.5	—	—	5.5
Total gallons of other fuel consumed	'000	—	—	—	—	—
Miles per gallon of other fuel		—	—	—	—	—
Weight of goods carried:						
Total tons of goods carried	'000	69,025	37,911	49,467	4,234	160,637
Average weight carried ¹	ton	10.4	3.5	1.4	1.0	4.6
Net ton miles:						
Total net ton miles performed	'000	3,305,624	1,109,848	558,059	63,862	5,037,393
Average net ton miles per truck		167,300	15,500	4,300	1,000	17,800
Capacity ton miles:						
Total capacity ton miles ²	'000	6,399,725	2,918,400	1,615,600	266,628	11,200,353
Average capacity ton miles per truck		324,000	40,800	12,500	4,200	39,500
Percentage of capacity utilized		51.7	38.0	34.5	24.0	45.0
Gross ton miles:						
Total gross ton miles ³	'000	7,621,576	3,655,034	2,329,612	441,130	14,047,352
Average gross ton miles per truck		385,800	51,200	18,000	7,000	49,500
Revenue:						
Total revenue	\$'000	234,098	—	—	—	—
Revenue per ton mile	¢	7.1	—	—	—	—
Revenue per mile (total mileage travelled)	¢	52.0	—	—	—	—
Average revenue per truck	\$	11,900	—	—	—	—
Estimated annual population		19,755	71,447	129,087	63,326	283,615

See footnotes at end of Table 5, page 9.

TABLE 5. All Trucks by Gross Vehicle Weight Group

	0-2½ tons 0-5,000 lb.	2½-5 tons 5,001-10,000 lb.	5-7½ tons 10,001-15,000 lb.	7½-10 tons 15,001-20,000 lb.	10-15 tons 20,001-30,000 lb.	Over 15 tons 30,001 lb. and over	Total
Mileage:							
Total mileage travelled	'000 947,230	317,269	97,918	169,578	239,287	392,618	2,163,900
Average yearly mileage per truck	5,800	5,800	6,900	8,400	15,200	25,300	7,600
Average distance each ton was carried	18.2	19.5	15.2	14.3	14.0	59.9	31.4
Percentage of total mileage travelled empty	69.2	36.2	29.6	33.0	41.9	28.1	49.3
Fuel:							
Total gallons of gasoline consumed	'000 63,236	28,034	10,307	21,990	34,115	59,926	217,608
Miles per gallon of gasoline	15.0	11.3	9.5	7.7	7.0	5.2	9.6
Total gallons of diesel oil consumed	'000 —	—	—	—	—	14,346	14,346
Miles per gallon of diesel oil	—	—	—	—	—	5.5	5.5
Total gallons of other fuel consumed	'000 —	—	—	—	—	—	—
Miles per gallon of other fuel	—	—	—	—	—	—	—
Weight of goods carried:							
Total tons of goods carried	'000 4,771	7,534	7,248	23,672	58,344	59,068	160,637
Average weight carried ¹	ton 0.3	0.7	1.6	3.0	5.9	12.5	4.6
Net ton miles:							
Total net ton miles performed	'000 86,954	146,833	10,331	338,227	818,018	3,537,030	5,037,393
Average net ton miles per truck	500	2,700	7,800	16,700	52,100	227,900	17,800
Capacity ton miles:							
Total capacity ton miles ²	'000 759,282	474,082	328,512	895,618	1,895,492	6,847,367	11,200,353
Average capacity ton miles per truck	4,700	8,700	23,200	44,200	120,700	441,300	39,500
Percentage of capacity utilized	11.5	31.0	33.6	37.8	43.2	51.7	45.0
Gross ton miles:							
Total gross ton miles ³	'000 1,581,793	858,227	447,428	1,027,464	1,936,196	8,196,244	14,047,352
Average gross ton miles per truck	9,700	15,700	31,600	50,700	123,300	528,200	49,500
Estimated annual population	163,252	54,694	14,163	20,284	15,705	15,517	283,615

¹ Ton miles divided by miles travelled with load.² Capacity ton miles are determined by multiplying the actual number of miles travelled by the estimated capacity or the weight of the heaviest load carried, whichever is larger.³ Gross ton miles performed are determined by adding to the total ton miles performed, the weight of the vehicle empty (tare) multiplied by total miles travelled.SECTION III. INTERPROVINCIAL AND INTERNATIONAL TRAFFIC PERFORMED BY ONTARIO REGISTERED TRUCKS
JANUARY 1 — DECEMBER 31, 1959

TABLE 6. Tons of Goods Carried by Province of Origin and Destination

Origin and destination	For hire			Private intercity			Total		
	Into Ontario	Out of Ontario	Total	Into Ontario	Out of Ontario	Total	Into Ontario	Out of Ontario	Total
'000 tons									
Newfoundland	—	—	—	—	—	—	—	—	—
Prince Edward Island	—	—	—	—	—	—	—	—	—
Nova Scotia	—	—	—	—	—	—	—	—	—
New Brunswick	1	4	5	—	—	—	1	4	5
Quebec	993	1,061	2,054	152	309	461	1,145	1,370	2,515
Manitoba	102	124	226	29	10	39	131	134	265
Saskatchewan	3	15	18	—	1	1	3	16	19
Alberta	93	135	228	3	3	6	96	138	234
British Columbia	3	30	33	—	—	—	3	30	33
Yukon and Northwest Territories	—	—	—	—	—	—	—	—	—
United States	317	410	727	143	127	270	460	537	997
Totals	1,512	1,779	3,291	327	450	777	1,839	2,229	4,068

TABLE 7. Selected Statistics by Commodity Group

Commodity group	For hire						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton	Total revenue	Revenue per ton mile
	'000 tons	'000	'000	tons	miles	\$'000	¢
Agricultural products	159	7,181	103,749	14.4	651.5	2,838	2.7
Animals and animal products	253	15,626	226,296	14.5	895.8	8,038	3.6
Mine products	176	682	11,236	16.5	63.7	446	4.0
Forest products	62	1,183	18,458	15.6	296.7	655	3.6
Manufactures and miscellaneous	1,724	55,888	668,857	12.0	387.9	35,083	5.2
N.O.S. general freight	917	39,273	577,893	14.7	630.4	25,597	4.4
Totals	3,291	119,833	1,606,489	13.4	488.1	72,657	4.5
	Private intercity						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton		
	'000 tons	'000	'000	tons	miles		
Agricultural products	38	1,869	24,231	13.0	641.8		
Animals and animal products	67	2,831	18,002	6.4	269.5		
Mine products	68	425	7,093	16.7	104.2		
Forest products	65	854	9,717	11.4	148.7		
Manufactures and miscellaneous	480	9,823	88,857	9.0	185.1		
N.O.S. general freight	59	993	12,547	12.6	211.8		
Totals	777	16,795	160,447	9.6	206.4		

Appendix

Type of operation	A. Population						
	0-2½ tons 0-5,000 lb.	2½-5 tons 5,001-10,000 lb.	5-7½ tons 10,001-15,000 lb.	7½-10 tons 15,001-20,000 lb.	10-15 tons 20,001-30,000 lb.	Over 15 tons 30,001 lb. and over	Total
Estimated Ontario truck population in 1959							
For hire	236	739	902	3,065	4,773	10,040	19,755
Private:							
Intercity	41,014	11,616	3,493	6,705	5,588	3,031	71,447
Urban	75,346	29,009	8,225	9,236	4,836	2,435	129,087
Farm	46,656	13,330	1,543	1,278	508	11	63,326
Totals	163,252	54,694	14,163	20,284	15,705	15,517	283,615
	B. Survey Response						
	Total number of trucks selected in samples	Number of questionnaires returned completed	Number of sampled trucks reported not in use during survey week	Number of questionnaires not returned or returned incomplete and unusable			
For hire	8,175	3,928	1,848	2,399			
Private:							
Intercity	8,655	4,037	2,451	2,167			
Urban	11,889	5,357	3,356	3,176			
Farm	2,847	1,253	774	820			
Totals	31,566	14,575	8,429	8,562			

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MOTOR TRANSPORT TRAFFIC :
PROVINCE OF ONTARIO
1960

Published by Authority of
The Honourable George Hees, Minister of Trade and Commerce

DOMINION BUREAU OF STATISTICS
Public Finance and Transportation Division
Transportation Section

July, 1962
8504-553

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ROAD TRANSPORT

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PROVINCE OF ONTARIO
JANUARY 1-DECEMBER 31, 1960

CHART-1

TRUCK REGISTRATIONS BY TYPE OF OPERATION

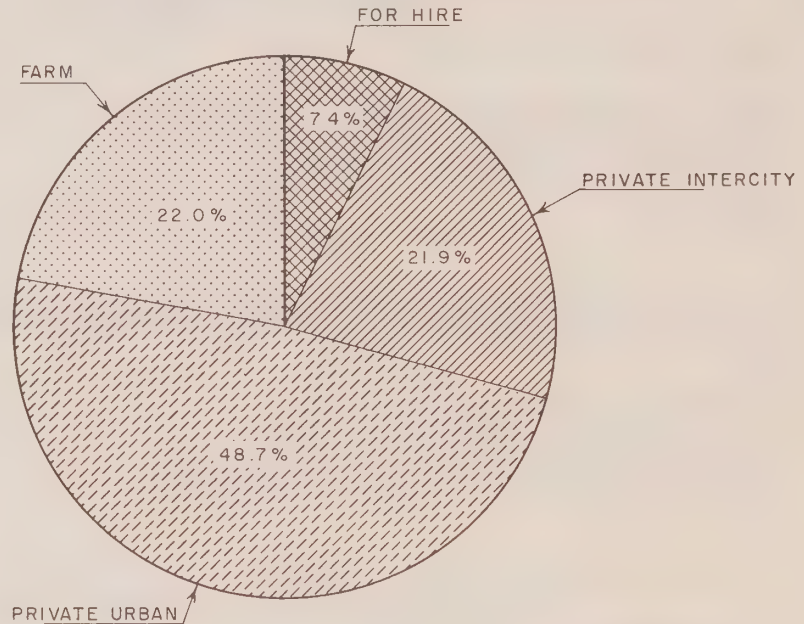
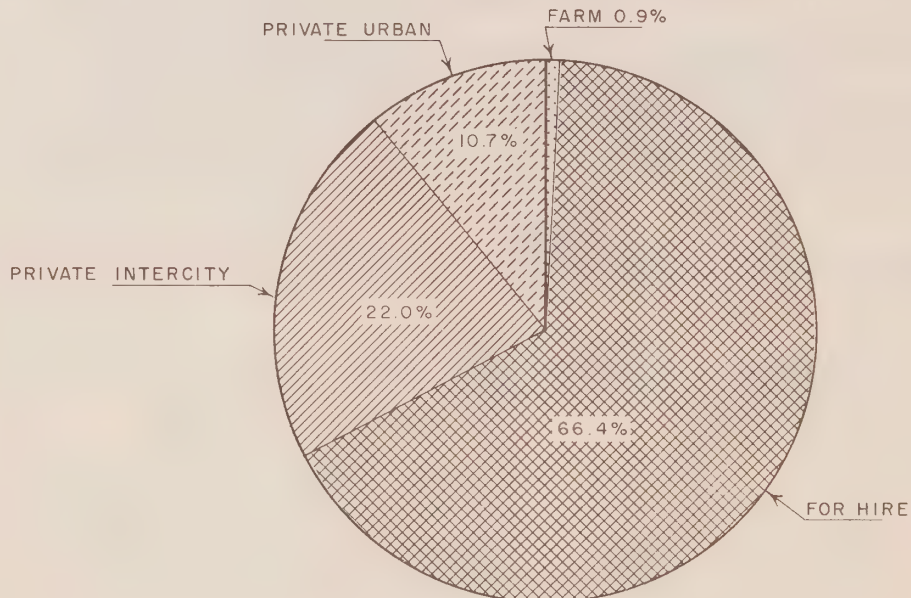


CHART-2

NET TON MILES BY TYPE OF OPERATION



INTRODUCTION

The 1960 annual report of motor transport traffic in the Province of Ontario is based upon a sample of approximately 12% of trucks registered in the province. To allow for seasonal variations in traffic and to ensure that the selected vehicles represented current registrations the sample was selected in four quarterly segments with approximately one fourth of the total selected each quarter. Each quarterly sample was spread over three survey weeks with one third of the sample being used for a seven day period, Sunday through Saturday, per month. The surveys were therefore spread over twelve weeks during the year.

All trucks registered in the province are represented except: (a) those not engaged in transportation services; and (b) military and other government-owned vehicles. Trailers as such were excluded from the sample, but details of tractor-trailer combinations were obtained by including the power units or tractors in the survey.

Vehicles in the sample are stratified by type of operation and by gross vehicle weight group. The four functional categories used are: for hire, private intercity, private urban and farm. For hire vehicles are those operated for compensation or gain according to licence; private intercity vehicles are those owned and operated by firms and individuals on intercity routes to transport their own goods; private urban vehicles are those operated only within urban areas; and farm trucks are those operated by farmers primarily to transport farm produce and supplies.

Since intercity for hire trucks ("P.C.V.'s") are the only class to be registered separately in Ontario, it is necessary to use completed questionnaires to classify privately operated vehicles in the sample as "intercity", "urban" and "farm".

In this report vehicles have been basically classified into four functional categories as follows:

For hire	—Public Commercial Vehicles (P.C.V.) operated for compensation beyond urban areas.
Private intercity	—Private non-farm trucks operated beyond urban areas.
Private urban	—Private and commercial vehicles operated predominantly within urban areas.
Farm	—Trucks owned and operated by farmers.

A number of urban trucks are operated for compensation but these vehicles were not included in the for hire category. As a result, the data shown throughout this report as "for hire" are understated and those for the "private urban" category are overstated by the extent of those urban for hire vehicles classified as "private urban".

Further information on the history and the organization of motor transport traffic surveys may be found in the reports entitled "Motor Transport Traffic, National Estimates", catalogue no. 53-207, for 1957, 1958 and 1959.

Expansion of Survey Results

As this survey is conducted on a sample basis the data obtained for the vehicles included in the sample have to be expanded to represent the traffic of the total truck population. The methods used in this expansion of the raw data have been continually improved. Current procedures are:

1. A truck population has to be determined. As each sample is selected quarterly the number of trucks chosen in each sample multiplied by the inverse of the sample selection ratio provides an estimated quarterly population. Prior to 1959 the data for each quarterly sample were expanded to represent the total traffic of the estimated population of the same quarter. In 1959, however, it was decided that it would be preferable to expand data for the four quarterly surveys using a constant population. This constant population would be the peak quarterly population of the previous year calculated by multiplying the sample in each quarter by the inverse of the sample selection ratios.

2. The constant population has to be broken down into gross vehicle weight groups and functions. This is already partially done as sample selections are stratified by weight group. Therefore it is only necessary to multiply the sample in each weight group by the inverse of the appropriate selection ratio to arrive at a quarterly population broken down by weight group. The four quarterly populations by gross vehicle weight are added together and an average weight group distribution for the year is computed. This weight group distribution is then applied to the constant population. The population then has to be distributed by function. This is done by using the distribution obtained from the previous year's completed questionnaires. The above procedure was introduced in 1959. Prior to that year the distribution by function was determined from completed questionnaires for each quarter separately.

A further improvement has been made for the 1960 report. The actual number of all P.C.V. registered trucks and tractors by gross vehicle

weight was made available for the 1959 registration year so this population was used for the for hire segment of the 1960 truck population.

As trailers are licensed separately from tractors in Ontario the gross vehicle weights of tractors in the P.C.V. population were adjusted to combined tractor-trailer gross vehicle weights on the basis of completed questionnaires. The procedures introduced in 1959 to determine a breakdown of population by function and gross vehicle weight now only apply to private intercity, private urban and farm vehicles.

3. Now that the constant population has been calculated and broken down by function and gross vehicle weight group, it is necessary to allocate vehicles included in current surveys in the same manner. For private intercity, private urban and farm vehicles this can only be done from completed questionnaires as they do not have distinctive licence categories. For hire vehicles can be identified immediately by their P.C.V. licence.
4. Expansion ratios for each gross vehicle weight group of each functional category are then calculated by determining for each breakdown the number of vehicles for which completed questionnaires were received or which were not in use during the survey period and dividing this sum into the constant population.

5. As the survey results for sample vehicles relate to one week's operations the expansion ratios calculated in (4) have to be multiplied by 13 to cover the three month period.
6. The expanded data for the four quarters are added together to arrive at an annual total.

As noted above, an actual count of all P.C.V. registrations by gross vehicle weight groups became available for the 1960 report. When the weight group distribution of the for hire segment of the 1959 report was compared with that used for 1960, some variations were apparent. In particular it appeared that too many vehicles had been assigned to the heavier gross vehicle weight groups in 1959.

As a result of these differences in weight group distribution of for hire vehicles between 1959 and 1960 and because the 1960 distribution was based on an actual count of all P.C.V. vehicles, the statistics of intercity for hire traffic for 1959 have probably been over-estimated to some extent. However, although an accurate measurement of the amount of the over-estimation cannot be made it is not thought to be overly significant. When making comparisons over time this change and other improvements that have been made in previous years should be noted.

Review of Survey Results

The estimated population of trucks performing transportation services in Ontario during 1960 decreased 0.4 per cent to 282,500 from 283,615 in 1959. Of these 20,741 or 7.4 per cent were for hire trucks; 61,956 or 21.9 per cent were private intercity vehicles; 137,550 or 48.7 per cent were private vehicles operating wholly within urban areas; and 62,253 or 22.0 per cent were farm trucks.

In the following tables blanks appear for some breakdowns of diesel fuel and other fuel by type of operation and by gross vehicle weight. In most of these instances no vehicles were chosen belonging to these classifications in any of the quarterly sample selections. However in one or two cases a few vehicles were selected but the data collected were considered too unreliable to publish. Even where no vehicles were selected it does not necessarily follow that there were no vehicles in the province belonging to these classifications.

Section I: Traffic Inside and Outside the Province

Section I contains estimates of total traffic performed both inside and outside the province by Ontario registered trucks.

A new table has been added to this section which summarizes for the year the quarterly commodity tables included in the quarterly report "Motor Transport Traffic, National Estimates", catalogue no. 53-004.

Although comprising only 7.4 per cent of Ontario truck population, for hire vehicles accounted for 66.4 per cent of the total net ton miles and 39.9 per cent of the total tons of goods carried during 1960. This results from the high average yearly mileage of these trucks, 25,400 miles, as compared with 7,500 miles for all trucks and from the heavy average load carried of 10.4 tons compared to 5.5 tons for all trucks. Since about three quarters of all for hire vehicles have a gross vehicle weight of over 10 tons the heavier loads carried by these trucks are to be expected. The predominance of heavier vehicles in the for hire class also explains the low estimate of miles per gallon of gasoline, 5.7 compared with 9.0 for all trucks.

It is estimated that urban operations accounted for 4.6 per cent of the total net ton miles performed by Ontario registered for hire trucks and 3.9 per cent of the total net ton miles performed by private intercity vehicles.

Some trucks in Ontario under 10,000 lb. gross vehicle weight are used essentially for personal transportation. Such vehicles accounted for about 11 per cent of the total mileage travelled by Ontario registered trucks.

Section II: Traffic Within the Province

This section presents estimates of traffic performed by Ontario registered trucks entirely inside the province and excludes the "outside the province" portion of interprovincial and international traffic as well as any traffic performed entirely outside the province. Comparing the data in Section I and Section II it will be noted that for

hire vehicles accumulated 24.3 per cent and private intercity 10.1 per cent of their total net ton miles outside Ontario.

Section III: Interprovincial and International Traffic

Interprovincial and international traffic accounted for a significant proportion of the total traffic performed by for hire vehicles representing approximately one third of the total net ton miles performed and one fifth of the revenue earned by these vehicles. Over two thirds of the total tons of goods carried in this type of traffic by Ontario registered for hire trucks was transported to or from Quebec and one fifth to or from the United States.

Appendix

During the year survey questionnaires were sent to the owners or operators of 33,333 trucks. Of this number 15,495 were returned completed and 9,111 trucks were reported not used during the

survey week. The remaining 8,727 were either returned incomplete and unusable or not returned at all.

June 18, 1962

**SECTION I. TRAFFIC PERFORMED BY ONTARIO REGISTERED TRUCKS INSIDE AND OUTSIDE THE PROVINCE
JANUARY 1 – DECEMBER 31, 1960**

TABLE 1. All Trucks by Type of Operation

	For hire	Private			Total	
		Intercity	Urban	Farm		
Mileage:						
Total mileage travelled	'000	526,272	662,111	753,414	189,660	2,131,457
Average yearly mileage per truck		25,400	10,700	5,500	3,000	7,500
Average distance each ton was carried		57.8	32.5	10.8	13.2	34.7
Percentage of total mileage travelled empty		28.0	53.6	54.8	72.2	49.4
Fuel:						
Total gallons of gasoline consumed	'000	75,577	66,969	67,879	14,220	224,645
Miles per gallon of gasoline		5.7	9.6	11.1	13.3	9.0
Total gallons of diesel oil consumed	'000	16,616	3,432	—	—	20,048
Miles per gallon of diesel oil		5.8	6.2	—	—	5.9
Total gallons of other fuel consumed	'000	—	—	—	—	—
Miles per gallon of other fuel		—	—	—	—	—
Weight of goods carried:						
Total tons of goods carried	'000	68,181	40,106	58,878	3,807	170,972
Average weight carried ¹	ton	10.4	4.2	1.9	1.0	5.5
Net ton miles:						
Total net ton miles performed	'000	3,937,873	1,304,048	635,182	50,415	5,927,518
Average net ton miles per truck		189,900	21,000	4,600	800	21,000
Capacity ton miles:						
Total capacity ton miles ²	'000	7,277,536	3,229,438	1,775,651	244,723	12,527,348
Average capacity ton miles per truck		350,900	52,100	12,900	3,900	44,300
Percentage of capacity utilized		54.1	40.4	35.8	20.6	47.3
Gross ton miles:						
Total gross ton miles ³	'000	9,007,725	3,928,139	2,539,226	409,011	15,884,101
Average gross ton miles per truck		434,300	63,400	18,500	6,600	56,200
Revenue:						
Total revenue	\$'000	271,089	—	—	—	—
Revenue per ton mile	¢	6.9	—	—	—	—
Revenue per mile (total mileage travelled)	¢	51.5	—	—	—	—
Average revenue per truck	\$	13,100	—	—	—	—
Estimated annual population		20,741	61,956	137,550	62,253	282,500

TABLE 2. All Trucks by Gross Vehicle Weight Group

	0-2½ tons 0-5,000 lb.	2½-5 tons 5,001-10,000 lb.	5-7½ tons 10,001-15,000 lb.	7½-10 tons 15,001-20,000 lb.	10-15 tons 20,001-30,000 lb.	Over 15 tons 30,001 lb. and over	Total
Mileage:							
Total mileage travelled '000	828,166	311,075	86,549	156,770	283,830	465,067	2,131,457
Average yearly mileage per truck	5,100	5,700	6,500	8,400	14,900	30,100	7,500
Average distance each ton was carried	15.5	18.2	16.3	18.9	13.0	72.1	34.7
Percentage of total mileage travelled empty	72.6	40.9	31.0	34.2	42.1	26.6	49.4
Fuel:							
Total gallons of gasoline consumed '000	56,101	27,617	9,328	20,166	40,773	70,660	224,645
Miles per gallon of gasoline	14.8	11.3	9.3	7.8	7.0	4.9	9.0
Total gallons of diesel oil consumed '000	—	—	—	—	1,749	18,299	20,048
Miles per gallon of diesel oil	—	—	—	—	6.4	5.8	5.9
Total gallons of other fuel consumed '000	—	—	—	—	—	—	—
Miles per gallon of other fuel	—	—	—	—	—	—	—
Weight of goods carried:							
Total tons of goods carried '000	4,204	7,948	6,838	17,123	75,136	59,723	170,972
Average weight carried ¹ ton	0.3	0.8	1.9	3.1	5.9	12.6	5.5
Net ton miles:							
Total net ton miles performed '000	65,374	144,511	111,472	323,069	977,863	4,305,229	5,927,518
Average net ton miles per truck	400	2,600	8,400	17,200	51,200	278,600	21,000
Capacity ton miles:							
Total capacity ton miles ² '000	676,592	461,501	291,690	818,868	2,347,325	7,931,372	12,527,348
Average capacity ton miles per truck	4,200	8,400	22,100	43,600	123,000	513,300	44,300
Percentage of capacity utilized	9.7	31.3	38.2	39.5	41.7	54.3	47.3
Gross ton miles:							
Total gross ton miles ³ '000	1,414,697	843,900	410,058	959,685	2,401,316	9,854,445	15,884,101
Average gross ton miles per truck	8,800	15,400	31,000	51,100	125,800	637,700	56,200
Estimated annual population	161,283	54,684	13,218	18,773	19,089	15,453	282,500

See footnotes at end of Table 6, page 10.

TABLE 3. Selected Statistics by Gross Vehicle Weight Group

Gross vehicle weight	For hire						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton	Total revenue	Revenue per ton mile
	'000 tons	'000	'000	tons	miles	\$'000	¢
20,000 lb. and under	4,922	39,875	106,396	2.7	21.6	28,765	27.0
20,001-30,000 lb.	35,291	72,079	453,598	6.3	12.9	43,336	9.6
30,001-50,000 lb.	8,851	68,227	534,081	7.8	60.3	51,897	9.7
50,001 lb. and over	19,117	198,814	2,843,798	14.3	148.8	147,091	5.2
Totals	68,181	378,995	3,937,873	10.4	57.8	271,089	6.9
	Private intercity						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton		
	'000 tons	'000	'000	tons	miles		
10,000 lb. and under	2,105	130,407	62,720		0.5		29.8
10,001-20,000 lb.	5,673	58,691	154,981		2.6		27.3
20,001-30,000 lb.	17,447	59,195	326,185		5.5		18.7
30,001-50,000 lb.	6,990	23,711	219,410		9.3		31.4
50,001 lb. and over	7,891	35,076	540,752		15.4		68.5
Totals	40,106	307,080	1,304,048		4.2		32.5

TABLE 4. Selected Statistics by Commodity Group

Commodity group	For hire						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton	Total revenue	Revenue per ton mile
	'000 tons	'000	'000	tons	miles	\$'000	¢
Agricultural products	1,328	15,162	202,940	13.4	152.8	8,156	4.0
Animals and animal products	3,107	50,714	377,746	7.4	121.6	26,728	7.1
Mine products	38,698	39,541	426,188	10.8	11.0	25,400	6.0
Forest products	1,537	8,468	99,180	11.9	64.5	5,873	5.9
Manufactures and miscellaneous	17,086	183,403	1,918,354	10.5	112.3	139,346	7.3
N.O.S. general freight	6,425	81,807	913,465	11.2	142.2	65,586	7.2
Totals	68,181	378,995	3,937,873	10.4	57.8	271,089	6.9
	Private intercity						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton		
	'000 tons	'000	'000	tons	miles		
Agricultural products	1,271	14,414	84,188		5.8		66.2
Animals and animal products	1,591	40,881	101,068		2.5		63.5
Mine products	16,647	18,418	174,823		9.5		10.5
Forest products	2,182	13,919	95,971		6.9		44.0
Manufactures and miscellaneous	17,184	199,455	795,832		4.0		46.3
N.O.S. general freight	1,231	19,993	52,166		2.6		42.4
Totals	40,106	307,080	1,304,048		4.2		32.5

SECTION II. TRAFFIC PERFORMED BY ONTARIO REGISTERED TRUCKS WITHIN THE PROVINCE
JANUARY 1 - DECEMBER 31, 1960

TABLE 5. All Trucks by Type of Operation

		For hire	Private			Total
			Intercity	Urban	Farm	
Mileage:						
Total mileage travelled	'000	437,663	635,871	753,414	189,660	2,016,608
Average yearly mileage per truck		21,100	10,300	5,500	3,000	7,100
Average distance each ton was carried		44.2	29.5	10.8	13.2	28.5
Percentage of total mileage travelled empty		30.5	54.1	54.8	72.2	50.9
Fuel:						
Total gallons of gasoline consumed	'000	67,838	63,942	67,879	14,220	213,879
Miles per gallon of gasoline		5.8	9.7	11.1	13.3	9.1
Total gallons of diesel oil consumed	'000	7,897	2,439	—	—	10,336
Miles per gallon of diesel oil		5.8	6.2	—	—	5.9
Total gallons of other fuel consumed	'000	—	—	—	—	—
Miles per gallon of other fuel		—	—	—	—	—
Weight of goods carried:						
Total tons of goods carried	'000	67,491	39,699	58,878	3,807	169,875
Average weight carried ¹	ton	9.8	4.0	1.9	1.0	4.9
Net ton miles:						
Total net ton miles performed	'000	2,982,195	1,172,168	635,182	50,415	4,839,960
Average net ton miles per truck		143,800	18,900	4,600	800	17,100
Capacity ton miles:						
Total capacity ton miles ²	'000	5,812,733	2,947,386	1,775,651	244,723	10,780,493
Average capacity ton miles per truck		280,300	47,600	12,900	3,900	38,200
Percentage of capacity utilized		51.3	39.8	35.8	20.6	44.9
Gross ton miles:						
Total gross ton miles ³	'000	6,993,400	3,598,435	2,539,226	409,011	13,540,072
Average gross ton miles per truck		337,200	58,100	18,500	6,600	47,900
Revenue:						
Total revenue	\$'000	233,459	—	—	—	—
Revenue per ton mile	¢	7.8	—	—	—	—
Revenue per mile (total mileage travelled)	¢	53.3	—	—	—	—
Average revenue per truck	\$	11,300	—	—	—	—
Estimated annual population		20,741	61,956	137,550	62,253	282,500

TABLE 6. All Trucks by Gross Vehicle Weight Group

	0-2½ tons 0-5,000 lb.	2½-5 tons 5,001-10,000 lb.	5-7½ tons 10,001-15,000 lb.	7½-10 tons 15,001-20,000 lb.	10-15 tons 20,001-30,000 lb.	Over 15 tons 30,001 lb. and over	Total
Mileage:							
Total mileage travelled	'000	824,414	309,946	84,850	153,387	278,954	365,057
Average yearly mileage per truck		5,100	5,700	6,400	8,200	14,600	23,600
Average distance each ton was carried		15.5	18.2	16.2	18.4	12.8	55.1
Percentage of total mileage travelled empty		72.5	40.8	31.4	34.1	42.1	29.1
Fuel:							
Total gallons of gasoline consumed	'000	55,885	27,525	9,171	19,788	39,937	61,573
Miles per gallon of gasoline		14.8	11.3	9.3	7.8	7.0	4.9
Total gallons of diesel oil consumed	'000	—	—	—	—	1,063	9,273
Miles per gallon of diesel oil		—	—	—	—	6.7	5.8
Total gallons of other fuel consumed	'000	—	—	—	—	—	—
Miles per gallon of other fuel		—	—	—	—	—	—
Weight of goods carried:							
Total tons of goods carried	'000	4,195	7,944	6,730	17,103	75,060	58,843
Average weight carried ¹	ton	0.3	0.8	1.9	3.1	6.0	12.5
Net ton miles:							
Total net ton miles performed	'000	65,135	144,241	108,875	315,313	962,687	3,243,709
Average net ton miles per truck		400	2,600	8,200	16,800	50,400	209,900
Capacity ton miles:							
Total capacity ton miles ²	'000	672,722	459,646	284,655	801,034	2,310,615	6,251,821
Average capacity ton miles per truck		4,200	8,400	21,500	42,700	121,000	404,600
Percentage of capacity utilized		9.7	31.4	38.2	39.4	41.7	51.9
Gross ton miles:							
Total gross ton miles ³	'000	1,408,895	841,191	401,699	938,313	2,361,497	7,588,477
Average gross ton miles per truck		8,700	15,400	30,400	50,000	123,700	491,100
Estimated annual population		161,283	54,684	13,218	18,773	19,089	15,453

¹ Ton miles divided by miles travelled with load.² Capacity ton miles are determined by multiplying the actual number of miles travelled by the estimated capacity or the weight of the heaviest load carried, whichever is larger.³ Gross ton miles performed are determined by adding to the total ton miles performed, the weight of the vehicle empty (tare) multiplied by total miles travelled.

**SECTION III. INTERPROVINCIAL AND INTERNATIONAL TRAFFIC PERFORMED BY ONTARIO REGISTERED TRUCKS
JANUARY 1 – DECEMBER 31, 1960**

TABLE 7. Tons of Goods Carried by Province of Origin and Destination

Origin and destination	For hire			Private intercity			Total		
	Into Ontario	Out of Ontario	Total	Into Ontario	Out of Ontario	Total	Into Ontario	Out of Ontario	Total
	'000 tons								
Newfoundland.....	—	—	—	—	—	—	—	—	—
Prince Edward Island	—	1	1	—	—	—	—	1	1
Nova Scotia	2	3	5	—	—	—	2	3	5
New Brunswick	1	7	8	—	1	1	1	8	9
Quebec	952	1,077	2,029	132	270	402	1,084	1,347	2,431
Manitoba	105	86	191	11	4	15	116	90	206
Saskatchewan.....	3	17	20	1	3	4	4	20	24
Alberta	70	90	160	—	—	—	70	90	160
British Columbia	8	15	23	—	—	—	8	15	23
Yukon and Northwest Territories	—	—	—	—	—	—	—	—	—
United States	293	338	631	144	106	250	437	444	881
Totals	1,434	1,634	3,068	288	384	672	1,722	2,018	3,740

TABLE 8. Selected Statistics by Commodity Group

Commodity group	For hire						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton	Total revenue	Revenue per ton mile
	'000 tons	'000	'000	tons	miles	\$'000	¢
Agricultural products	165	8,820	129,326	14.7	780.4	3,511	2.7
Animals and animal products	211	11,219	143,942	12.8	683.0	5,247	3.6
Mine products	43	375	6,934	18.5	162.6	329	4.7
Forest products	61	1,436	20,733	14.4	339.3	814	3.9
Manufactures and miscellaneous	1,657	60,495	674,248	11.1	406.9	35,058	5.2
N.O.S. general freight	931	28,827	412,995	14.3	443.8	15,271	3.7
Totals	3,068	111,172	1,388,178	12.5	452.5	60,230	4.3
	Private intercity						
	Weight of goods carried		Total miles travelled with load	Total net ton miles	Average weight carried		Average distance per ton
	'000 tons		'000	'000	tons		miles
	72		1,329	16,478	12.4		229.5
Animals and animal products	70		1,746	14,213	8.1		204.5
Mine products	27		414	6,856	16.5		252.4
Forest products	37		1,126	8,844	7.9		235.8
Manufactures and miscellaneous	452		9,811	94,202	9.6		208.6
N.O.S. general freight	14		2,130	6,708	3.1		465.8
Totals	672		16,556	147,301	8.9		219.2

Appendix

Type of operation	A. Population						
	0-2½ tons 0-5,000 lb.	2½-5 tons 5,001-10,000 lb.	5-7½ tons 10,001-15,000 lb.	7½-10 tons 15,001-20,000 lb.	10-15 tons 20,001-30,000 lb.	Over 15 tons 30,001 lb. and over	Total
Estimated Ontario truck population in 1960							
For hire	394	1,109	869	3,028	6,639	8,702	20,741
Private:							
Intercity	32,080	11,151	2,804	6,003	6,243	3,675	61,956
Urban	82,875	29,408	7,998	8,459	5,745	3,065	137,550
Farm	45,934	13,016	1,547	1,283	462	11	62,253
Totals	161,283	54,684	13,218	18,773	19,089	15,453	282,500
B. Survey Response							
	Total number of trucks selected in samples	Number of questionnaires returned completed		Number of sampled trucks reported not in use during survey week		Number of questionnaires not returned or returned incomplete and unusable	
For hire	9,198	4,567		2,259		2,372	
Private:							
Intercity	9,928	4,590		2,795		2,543	
Urban	12,018	5,378		3,448		3,192	
Farm	2,189	960		609		620	
Totals	33,333	15,495		9,111		8,727	

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PROVINCE OF ONTARIO

1961

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PROVINCE OF ONTARIO
JANUARY 1-DECEMBER 31, 1961

CHART-1

TRUCK REGISTRATIONS BY TYPE OF OPERATION

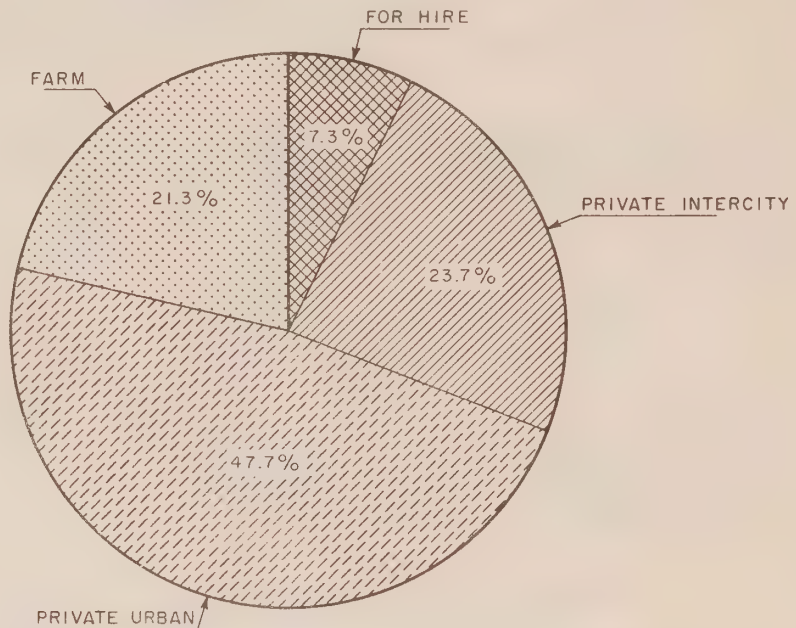
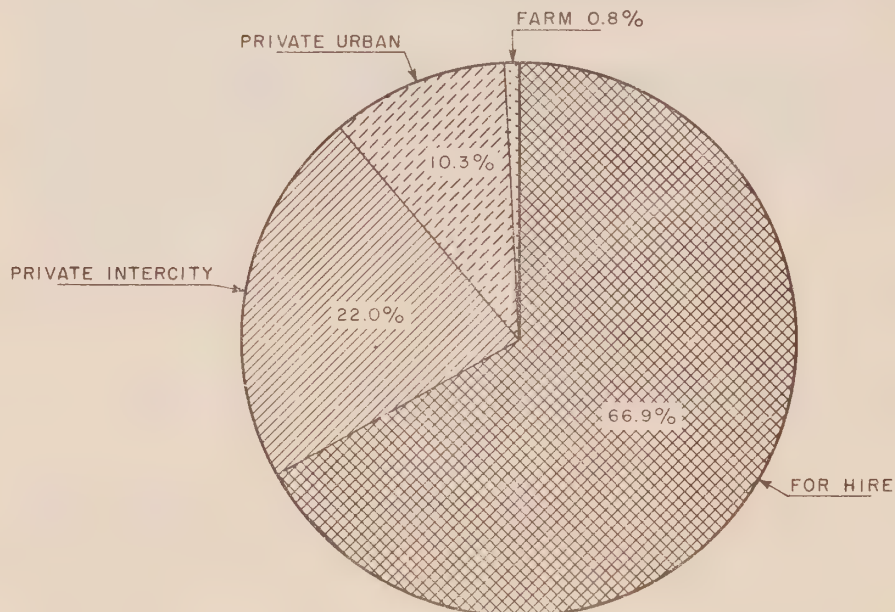


CHART-2

NET TON MILES BY TYPE OF OPERATION



INTRODUCTION

The 1961 annual report of motor transport traffic in the Province of Ontario is based upon a sample of approximately 12% of trucks registered in the province. To allow for seasonal variations in traffic and to ensure that the selected vehicles represented current registrations the sample was selected in four quarterly segments with approximately one fourth of the total selected each quarter. Each quarterly sample was spread over three survey weeks with one third of the sample being used for a seven day period, Sunday through Saturday, per month. The surveys were therefore spread over twelve weeks during the year.

All trucks registered in the province are represented except: (a) those not engaged in transportation services; and (b) military and other government-owned vehicles. Trailers as such were excluded from the sample, but details of tractor-trailer combinations were obtained by including the power units or tractors in the survey.

Vehicles in the sample are stratified by type of operation and by gross vehicle weight group. The four functional categories used are: for hire, private intercity, private urban and farm. For hire vehicles are those operated for compensation or gain according to licence; private intercity vehicles are those owned and operated by firms and individuals on intercity routes to transport their own goods; private urban vehicles are those operated only within urban areas; and farm trucks are those operated by farmers primarily to transport farm produce and supplies.

Since intercity for hire trucks ("P.C.V.'s") are the only class to be registered separately in Ontario, it is necessary to use completed questionnaires to classify privately operated vehicles in the sample as "intercity", "urban" and "farm".

In this report vehicles have been classified into four functional categories as follows:

For hire	—Public Commercial Vehicles (P.C.V.) operated for compensation beyond urban areas.
Private intercity	—Private non-farm trucks operated beyond urban areas.
Private urban	—Private and commercial vehicles operated predominantly within urban areas.
Farm	—Trucks owned and operated by farmers.

A number of urban trucks are operated for compensation but these vehicles were not included in the for hire category. As a result, the data shown throughout this report as "for hire" are understated and those for the "private urban" category are overstated by the extent of those urban for hire vehicles classified as "private urban".

Further information on the history and the organization of motor transport traffic surveys may be found in the reports entitled "Motor Transport Traffic, National Estimates", catalogue no. 53-207, for 1957 to 1960.

Expansion of Survey Results

As this survey is conducted on a sample basis the data obtained for the vehicles included in the sample have to be expanded to represent the traffic of the total truck population. The methods used in this expansion of the raw data have been continually improved. Current procedures are:

1. A truck population has to be determined. As each sample is selected quarterly the number of trucks chosen in each sample multiplied by the inverse of the sample selection ratio provides an estimated quarterly population. Prior to 1959 the data for each quarterly sample were expanded to represent the total traffic of the estimated population of the same quarter. In 1959, however, it was decided that it would be preferable to expand data for the four quarterly surveys using a constant population. This constant population would be the peak quarterly population of the previous year

calculated by multiplying the sample in each quarter by the inverse of the sample selection ratios.

2. The constant population has to be broken down into gross vehicle weight groups and functions. This is already partially done as sample selections are stratified by weight group. Therefore it is only necessary to multiply the sample in each weight group by the inverse of the appropriate selection ratio to arrive at a quarterly population broken down by weight group. The four quarterly populations by gross vehicle weight are added together and an average weight group distribution for the year is computed. This weight group distribution is applied to the constant population. The population then has to be distributed by function. This is done by using the average distribution obtained from all the previous year's

completed questionnaires. The above procedure was introduced in 1959. Prior to that year the distribution by function was determined from completed questionnaires for each quarter separately.

A further improvement was made for the 1960 report. Since that year the actual number of P.C.V. registered trucks and tractors by gross vehicle weight for the previous registration year has been used to estimate the for hire population for the current year. Therefore, the actual P.C.V. population for 1960 was used to arrive at an estimate of the 1961 for hire segment of the truck population. As trailers are licensed separately from tractors in Ontario the gross vehicle weights of tractors in the P.C.V. population were adjusted to combined tractor-trailer gross vehicle weights on the basis of completed questionnaires.

The procedures introduced in 1959 to determine a breakdown of population by function and gross vehicle weight now only apply to private intercity, private urban and farm vehicles.

3. When the constant population has been calculated and broken down by function and gross vehicle weight group, it is necessary to allocate vehicles included in current surveys in the same manner. For private intercity, private urban and farm vehicles this can only be done from completed questionnaires as they do not have distinctive licence categories. For hire vehicles can be identified immediately by their P.C.V. licence.

4. Expansion ratios for each gross vehicle weight group of each functional category are then calculated by determining for each breakdown the number of vehicles for which completed questionnaires were received or which were not in use during the survey period and dividing this sum into the constant population.

5. As the survey results for sample vehicles relate to one week's operations the expansion ratios calculated in (4) have to be multiplied by 13 to cover the three month period.

6. The expanded data for the four quarters are added together to arrive at an annual total.

While the changes and improvements in methods of compilation mentioned above will to some extent influence comparisons of data between years the effects should not be overly significant. In addition it is emphasized that since the statistics contained in this report are calculated from a sample survey they are only estimates and not actual figures.

It should be noted that in 1961 the description of commodities transported by trucks was changed to conform with the revised "Standard Commodity Classification" produced by the Dominion Bureau of Statistics. Formerly commodities were classified according to the "Railway Freight Commodity Statistics Classification". The change will enable these data to be compared more easily with other commodity data produced by the Dominion Bureau of Statistics.

Review of Survey Results

The estimated population of trucks performing transportation services in Ontario during 1961 increased 3.5 per cent to 292,300 from 282,500 in 1960. Of these, 21,305 or 7.3 per cent were for hire trucks; 69,283 or 23.7 per cent were private intercity vehicles; 139,398 or 47.7 per cent were private vehicles operating wholly within urban areas and 62,314 or 21.3 per cent were farm trucks.

In the following tables blanks appear for some breakdowns of diesel fuel and other fuel by type of operation and by gross vehicle weight. In most of these instances no vehicles were chosen belonging to these classifications in any of the quarterly sample selections. However in one or two cases a few vehicles were selected but the data collected were considered too unreliable to publish. Even where no vehicles were selected it does not necessarily follow that there were no vehicles in the province belonging to these classifications.

Section I: Traffic Inside and Outside the Province

Section I contains estimates of total traffic performed both inside and outside the province by Ontario registered trucks.

Although comprising only 7.3 per cent of Ontario truck population, for hire vehicles accounted for 66.9 per cent of the total net ton miles and 37.6 per cent of the total tons of goods carried during 1961. This results from the high average yearly mileage of these trucks 27,600 as compared with 8,100 for all trucks and from the heavy average load carried of 10.9 tons compared to 5.6 tons for all trucks. Since over three quarters of all for hire vehicles have a gross vehicle weight of over 10 tons the heavier loads carried by these trucks are to be expected. The predominance of heavier vehicles in the for hire class also explains the low estimate of miles per gallon of gasoline 5.4 compared with 8.6 for all trucks.

It is estimated that urban operations accounted for 4.9 per cent of the total net ton miles performed by Ontario registered for hire trucks and 4.3 per cent of the total net ton miles performed by private intercity vehicles.

Some trucks in Ontario under 10,000 lb. gross vehicle weight are used essentially for personal transportation. Such vehicles accounted for about 10 per cent of the total mileage travelled by Ontario registered trucks.

Section II: Traffic Within the Province

This section presents estimates of traffic performed by Ontario registered trucks entirely inside the province and excludes the "outside the province" portion of interprovincial and international

traffic as well as any traffic performed entirely outside the province. Comparing the data in Section I and Section II it will be noted that for hire vehicles accumulated 27.9 per cent and private intercity 10.5 per cent of their total net ton miles outside Ontario.

Section III: Interprovincial and International Traffic

Interprovincial and international traffic accounted for a significant proportion of the total traffic performed by for hire vehicles representing approximately one third of the total net ton miles performed and one fifth of the revenue earned by these vehicles. Almost two thirds of the total tons of goods carried in this type of traffic by Ontario registered for hire trucks was transported to or from Quebec and one fifth to or from the United States.

Appendix

During the year survey questionnaires were sent to the owners or operators of 34,242 trucks. Of this number 15,891 were returned completed and 9,258

trucks were reported not used during the survey week. The remaining 9,093 were either returned incomplete and unusable or not returned at all.

October 30, 1962

**SECTION I. TRAFFIC PERFORMED BY ONTARIO REGISTERED TRUCKS INSIDE AND OUTSIDE THE PROVINCE
JANUARY 1 – DECEMBER 31, 1961**

TABLE 1. All Trucks by Type of Operation

	For hire	Private			Total	
		Intercity	Urban	Farm		
Mileage:						
Total mileage travelled	'000	587,831	785,224	797,544	186,677	2,357,276
Average yearly mileage per truck		27,600	11,300	5,700	3,000	8,100
Average distance each ton was carried		63.5	37.8	9.2	14.2	35.7
Percentage of total mileage travelled empty		27.2	50.7	53.1	66.5	46.9
Fuel:						
Total gallons of gasoline consumed	'000	83,812	81,355	75,720	13,656	254,543
Miles per gallon of gasoline		5.4	9.4	10.5	13.7	8.6
Total gallons of diesel oil consumed	'000	23,073	4,294	—	—	27,367
Miles per gallon of diesel oil		5.8	5.6	—	—	5.8
Total gallons of other fuel consumed	'000	—	—	—	—	—
Miles per gallon of other fuel		—	—	—	—	—
Weight of goods carried:						
Total tons of goods carried	'000	73,702	40,732	77,891	3,770	196,095
Average weight carried ¹	ton	10.9	4.0	1.9	0.9	5.6
Net ton miles:						
Total net ton miles performed	'000	4,676,887	1,541,403	719,357	53,576	6,991,223
Average net ton miles per truck		219,500	22,300	5,200	900	23,900
Capacity ton miles:						
Total capacity ton miles ²	'000	8,566,653	3,797,740	1,993,231	242,607	14,600,231
Average capacity ton miles per truck		402,100	54,800	14,300	3,900	50,000
Percentage of capacity utilized		54.6	40.6	36.1	22.1	47.9
Gross ton miles:						
Total gross ton miles ³	'000	10,662,433	4,665,518	2,790,084	412,512	18,530,547
Average gross ton miles per truck		500,500	67,300	20,000	6,600	63,400
Revenue:						
Total revenue	\$'000	292,802	—	—	—	—
Revenue per ton mile	¢	6.3	—	—	—	—
Revenue per mile (total mileage travelled)	¢	49.8	—	—	—	—
Average revenue per truck	\$	13,700	—	—	—	—
Estimated annual population		21,305	69,283	139,398	62,314	292,300

TABLE 2. All Trucks by Gross Vehicle Weight Group

	0-2½ tons 0-5,000 lb.	2½-5 tons 5,001-10,000 lb.	5-7½ tons 10,001-15,000 lb.	7½-10 tons 15,001-20,000 lb.	10-15 tons 20,001-30,000 lb.	Over 15 tons 30,001 lb. and over	Total
Mileage:							
Total mileage travelled '000	886,213	355,103	100,342	160,618	310,818	544,182	2,357,276
Average yearly mileage per truck	5,400	6,300	7,500	8,400	15,000	30,900	8,100
Average distance each ton was carried	20.1	20.8	18.1	19.0	13.3	65.6	35.7
Percentage of total mileage travelled empty	67.2	42.1	31.3	33.3	42.0	26.8	46.9
Fuel:							
Total gallons of gasoline consumed '000	60,787	31,094	11,113	21,323	45,493	84,733	254,543
Miles per gallon of gasoline	14.6	11.4	9.0	7.5	6.8	4.6	8.6
Total gallons of diesel oil consumed '000	—	—	—	—	—	27,367	27,367
Miles per gallon of diesel oil	—	—	—	—	—	5.8	5.8
Total gallons of other fuel consumed '000	—	—	—	—	—	—	—
Miles per gallon of other fuel	—	—	—	—	—	—	—
Weight of goods carried:							
Total tons of goods carried '000	4,373	7,196	6,682	17,345	80,805	79,694	196,095
Average weight carried ¹ ton	0.3	0.7	1.8	3.1	6.0	13.1	5.6
Net ton miles:							
Total net ton miles performed '000	88,101	149,872	120,631	329,485	1,077,932	5,225,202	6,991,223
Average net ton miles per truck	500	2,700	9,000	17,300	52,100	296,600	23,900
Capacity ton miles:							
Total capacity ton miles ² '000	745,465	505,798	328,980	839,286	2,588,877	9,591,825	14,600,231
Average capacity ton miles per truck	4,500	9,000	24,600	44,100	125,200	544,400	50,000
Percentage of capacity utilized	11.8	29.6	36.7	39.3	41.6	54.5	47.9
Gross ton miles:							
Total gross ton miles ³ '000	1,566,174	951,107	465,786	984,617	2,645,242	11,917,621	18,530,547
Average gross ton miles per truck	9,500	16,900	34,900	51,700	127,900	676,400	63,400
Estimated annual population	165,186	56,404	13,359	19,047	20,680	17,624	292,300

See footnotes at end of Table 6, page 10.

TABLE 3. Selected Statistics by Gross Vehicle Weight Group

Gross vehicle weight	For hire						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton	Total revenue	Revenue per ton mile
	'000 tons	'000	'000	tons	miles	\$'000	¢
20,000 lb. and under	4, 135	37,819	85,045	2.2	20.6	19,911	23.4
20,001-30,000 lb.	37,890	79,301	499,030	6.3	13.2	44,171	8.9
30,001-50,000 lb.	9,737	68,825	565,176	8.2	58.0	52,552	9.3
50,000 lb. and over	21,940	241,830	3,527,636	14.6	160.8	176,168	5.0
Totals	73,702	427,775	4,676,887	10.9	63.5	292,802	6.3
	Private intercity						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton		
	'000 tons	'000	'000	tons	miles		
10,000 lb. and under	2,585	179,121	82,570		0.5		31.9
10,001-20,000 lb.	5,550	73,645	181,044		2.5		32.6
20,001-30,000 lb.	15,848	65,365	359,968		5.5		22.7
30,001-50,000 lb.	6,727	26,321	237,413		9.0		35.3
50,001 lb. and over	10,022	42,490	680,408		16.0		67.9
Totals	40,732	386,942	1,541,403		4.0		37.8

TABLE 4. Selected Statistics by Commodity Group

Commodity group	For hire						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton	Total revenue	Revenue per ton mile
	'000 tons	'000	'000	tons	miles	\$'000	¢
Live animals	990	12,785	84,004	6.6	84.9	6,629	7.9
Food, feed, beverages and tobacco	6,799	92,781	1,027,477	11.1	151.1	47,189	4.6
Crude materials, inedible	42,024	50,360	564,912	11.2	13.4	28,980	5.1
Fabricated materials, inedible	10,655	62,319	938,846	15.1	88.1	48,462	5.2
End products, inedible	4,226	83,705	684,208	8.2	161.9	64,199	9.4
General freight	9,008	125,825	1,377,440	10.9	152.9	97,343	7.1
Totals	73,702	427,775	4,676,887	10.9	63.5	292,802	6.3
	Private intercity						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton		
	'000 tons	'000	'000	tons	miles		
Live animals	330	8,244	20,999		2.5		63.7
Food, feed, beverages and tobacco	6,948	133,333	462,071		3.5		66.5
Crude materials, inedible	15,117	37,031	290,104		7.8		19.2
Fabricated materials, inedible	14,017	70,738	512,196		7.2		36.5
End products, inedible	2,597	94,688	182,447		1.9		70.2
General freight	1,723	42,908	73,586		1.7		42.7
Totals	40,732	386,942	1,541,403		4.0		37.8

**SECTION II. TRAFFIC PERFORMED BY ONTARIO REGISTERED TRUCKS WITHIN THE PROVINCE
JANUARY 1—DECEMBER 31, 1961**

TABLE 5. All Trucks by Type of Operation

		For hire	Private			Total
			Intercity	Urban	Farm	
Mileage:						
Total mileage travelled	'000	481,511	747,252	797,544	186,677	2,212,984
Average yearly mileage per truck		22,600	10,800	5,700	3,000	7,600
Average distance each ton was carried		46.4	34.4	9.2	14.2	28.4
Percentage of total mileage travelled empty		30.2	51.7	53.1	66.5	48.8
Fuel:						
Total gallons of gasoline consumed	'000	76,642	77,637	75,720	13,656	243,655
Miles per gallon of gasoline		5.5	9.4	10.5	13.7	8.8
Total gallons of diesel oil consumed	'000	11,325	3,246	—	—	14,571
Miles per gallon of diesel oil		5.5	5.5	—	—	5.5
Total gallons of other fuel consumed	'000	—	—	—	—	—
Miles per gallon of other fuel		—	—	—	—	—
Weight of goods carried:						
Total tons of goods carried	'000	72,677	40,063	77,891	3,770	194,401
Average weight carried ¹	ton	10.0	3.8	1.9	0.9	4.9
Net ton miles:						
Total net ton miles performed	'000	3,371,989	1,378,803	719,357	53,576	5,523,725
Average net ton miles per truck		158,300	19,900	5,200	900	18,900
Capacity ton miles:						
Total capacity ton miles ²	'000	6,675,815	3,479,591	1,993,231	242,607	12,391,244
Average capacity ton miles per truck		313,300	50,200	14,300	3,900	42,400
Percentage of capacity utilized		50.5	39.6	36.1	22.1	44.6
Gross ton miles:						
Total gross ton miles ³	'000	7,993,688	4,274,348	2,790,084	412,512	15,470,632
Average gross ton miles per truck		375,200	61,700	20,000	6,600	52,900
Revenue:						
Total revenue	\$'000	249,902	—	—	—	—
Revenue per ton mile	¢	7.4	—	—	—	—
Revenue per mile (total mileage travelled)	¢	51.9	—	—	—	—
Average revenue per truck	\$	11,700	—	—	—	—
Estimated annual population		21,305	69,283	139,398	62,314	292,300

TABLE 6. All Trucks by Gross Vehicle Weight Group

		0-2½ tons 0-5000 lb.	2½-5 tons 5,001-10,000 lb.	5-7½ tons 10,001-15,000 lb.	7½-10 tons 15,001-20,000 lb.	10-15 tons 20,001-30,000 lb.	Over 15 tons 30,001 lb. and over	Total
Mileage:								
Total mileage travelled	'000	878,108	346,855	99,234	156,863	305,822	426,102	2,212,984
Average yearly mileage per truck		5,300	6,200	7,400	8,200	14,800	24,200	7,600
Average distance each ton was carried		19.9	20.1	18.0	18.4	13.2	48.3	28.4
Percentage of total mileage travelled empty		67.5	42.4	31.2	33.3	41.9	30.1	48.8
Fuel:								
Total gallons of gasoline consumed	'000	60,342	30,550	10,999	20,781	44,781	76,202	243,655
Miles per gallon of gasoline		14.6	11.4	9.0	7.5	6.8	4.5	8.8
Total gallons of diesel oil consumed	'000	—	—	—	—	—	14,571	14,571
Miles per gallon of diesel oil		—	—	—	—	—	5.5	5.5
Total gallons of other fuel consumed	'000	—	—	—	—	—	—	—
Miles per gallon of other fuel		—	—	—	—	—	—	—
Weight of goods carried:								
Total tons of goods carried	'000	4,372	7,194	6,623	17,293	80,407	78,512	194,401
Average weight carried¹	ton	0.3	0.7	1.7	3.0	6.0	12.7	4.9
Net ton miles:								
Total net ton miles performed	'000	86,869	144,545	119,273	317,876	1,062,280	3,792,882	5,523,725
Average net ton miles per truck		500	2,600	8,900	16,700	51,400	215,300	18,900
Capacity ton miles:								
Total capacity ton miles²	'000	738,519	492,351	325,153	815,238	2,548,169	7,471,814	12,391,244
Average capacity ton miles per truck		4,500	8,700	24,300	42,800	123,200	424,100	42,400
Percentage of capacity utilized		11.8	29.4	36.7	39.0	41.7	50.8	44.6
Gross ton miles:								
Total gross ton miles³	'000	1,551,763	925,830	460,759	958,389	2,604,589	8,969,302	15,470,632
Average gross ton miles per truck		9,400	16,400	34,500	50,300	126,000	509,100	52,900
Estimated annual population		165,186	56,404	13,359	19,047	20,680	17,624	292,300

¹ Ton miles divided by miles travelled with load.² Capacity ton miles are determined by multiplying the actual number of miles travelled by the estimated capacity or the weight of the heaviest load carried, whichever is larger.³ Gross ton miles performed are determined by adding to the total ton miles performed, the weight of the vehicle empty (tare) multiplied by total miles travelled.

**SECTION III. INTERPROVINCIAL AND INTERNATIONAL TRAFFIC PERFORMED BY ONTARIO REGISTERED TRUCKS
JANUARY 1 — DECEMBER 31, 1961**

TABLE 7. Tons of Goods Carried by Province of Origin and Destination

Origin and destination	For hire			Private intercity			Total		
	Into Ontario	Out of Ontario	Total	Into Ontario	Out of Ontario	Total	Into Ontario	Out of Ontario	Total
	'000 tons								
Newfoundland	—	—	—	—	—	—	—	—	—
Prince Edward Island	—	—	—	—	—	—	—	—	—
Nova Scotia	5	11	16	—	1	1	5	12	17
New Brunswick	—	5	5	—	—	—	—	5	5
Quebec	910	1,127	2,037	236	313	549	1,146	1,440	2,586
Manitoba	161	119	280	46	14	60	207	133	340
Saskatchewan	3	49	52	1	1	2	4	50	54
Alberta	74	83	157	—	—	—	74	83	157
British Columbia	11	11	22	—	2	2	11	13	24
Yukon and Northwest Territories	—	—	—	—	—	—	—	—	—
United States	351	275	626	221	165	386	572	440	1,012
Totals	1,515	1,680	3,195	504	496	1,000	2,019	2,176	4,195

TABLE 8. Selected Statistics by Commodity Group

Commodity group	For hire						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton	Total revenue	Revenue per ton mile
	'000 tons	'000	'000	tons	miles	\$'000	¢
Live animals.....	48	1,802	23,431	13.0	482.9	794	3.4
Food, feed, beverages and tobacco	615	24,937	377,730	15.1	614.8	9,883	2.6
Crude materials, inedible	93	2,993	40,192	13.4	431.9	1,186	3.0
Fabricated materials, inedible	835	14,327	228,832	16.0	274.0	9,311	4.1
End products, inedible	637	34,048	314,534	9.2	493.5	20,314	6.5
General freight	967	41,064	632,228	15.4	653.8	24,955	3.9
Totals	3,195	119,171	1,616,947	13.6	506.0	66,443	4.1
	Private intercity						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton		
	'000 tons	'000	'000	tons	miles		
Live animals	19	1,308	4,198	3.2	223.5		
Food, feed, beverages and tobacco	222	12,050	72,547	6.0	325.9		
Crude materials, inedible	168	1,611	19,435	12.1	115.4		
Fabricated materials, inedible	433	4,390	60,513	13.8	139.9		
End products, inedible	111	6,128	31,192	5.1	281.6		
General freight	47	9,112	15,171	1.7	324.4		
Totals	1,000	34,599	203,056	5.9	203.1		

Appendix

Type of operation	A. Population						
	0-2½ tons 0-5,000 lb.	2½-5 tons 5,001-10,000 lb.	5-7½ tons 10,001-15,000 lb.	7½-10 tons 15,001-20,000 lb.	10-15 tons 20,001-30,000 lb.	Over 15 tons 30,001 lb. and over	Total
Estimated Ontario truck population in 1961							
For hire	219	753	1,026	2,379	6,994	9,934	21,305
Private:							
Intercity	34,871	12,896	3,443	7,046	6,902	4,125	69,283
Urban	82,788	30,378	7,797	8,574	6,304	3,557	139,398
Farm	47,308	12,377	1,093	1,048	480	8	62,314
Totals	165,186	56,404	13,359	19,047	20,680	17,624	292,300
B. Survey Response							
	Total number of trucks selected in samples		Number of questionnaires returned completed		Number of sampled trucks reported not in use during survey week		Number of questionnaires not returned or returned incomplete and unusable
For hire	8,711		4,326		2,124		2,261
Private:							
Intercity	10,534		4,848		2,932		2,754
Urban	12,568		5,653		3,534		3,381
Farm	2,429		1,064		668		697
Totals	34,242		15,891		9,258		9,093

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14



CANADA

MOTOR TRANSPORT TRAFFIC

PROVINCE OF ONTARIO

1962



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Transportation Section

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Motor Transport Traffic

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PROVINCE OF ONTARIO
JANUARY 1 - DECEMBER 31, 1962

CHART - 1

TRUCK REGISTRATIONS BY TYPE OF OPERATION

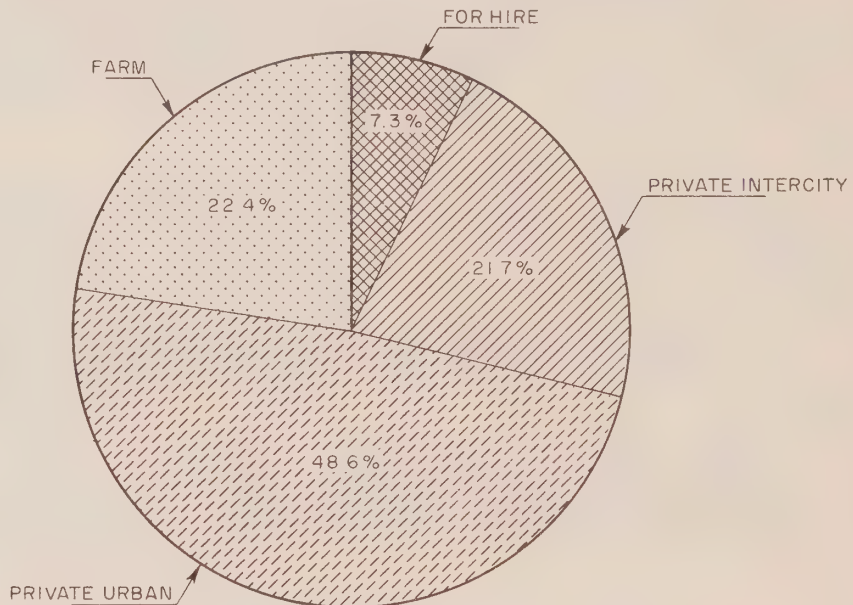
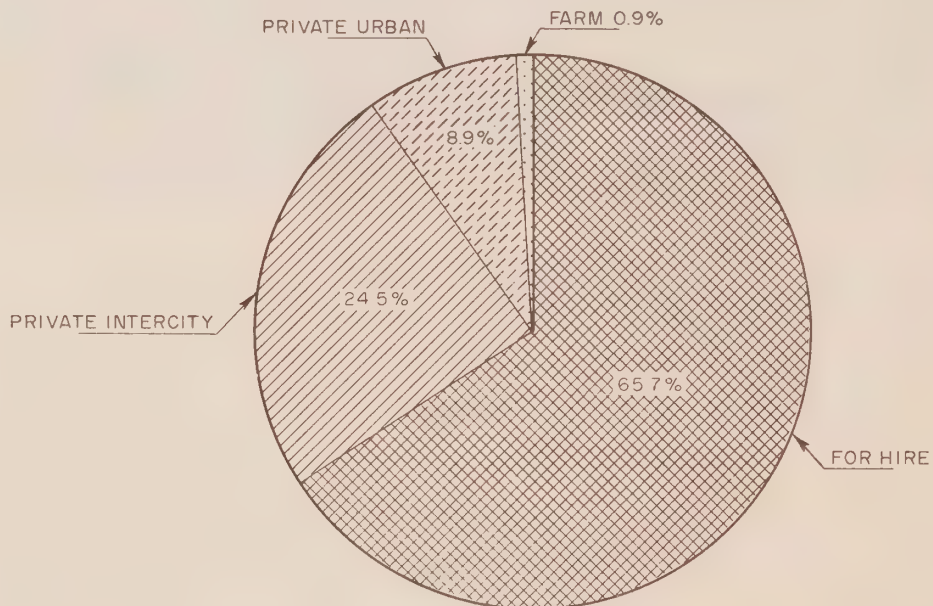


CHART - 2

NET TON MILES BY TYPE OF OPERATION



INTRODUCTION

The 1962 annual report of motor transport traffic in the Province of Ontario is based upon a sample of approximately 12% of trucks registered in the province. To allow for seasonal variations in traffic and to ensure that the selected vehicles represented current registrations the sample was selected in four quarterly segments with approximately one fourth of the total selected each quarter. Each quarterly sample was spread over three survey weeks with one third of the sample being used for a seven day period, Sunday through Saturday, per month. The surveys were therefore spread over twelve weeks during the year.

All trucks registered in the province are represented except: (a) those not engaged in transportation services; and (b) military and other government-owned vehicles. Trailers as such were excluded from the sample, but details of tractor-trailer combinations were obtained by including the power units or tractors in the survey.

Vehicles in the sample are stratified by type of operation and by gross vehicle weight group. The four functional categories used are: for hire, private intercity, private urban and farm. For hire vehicles are those operated for compensation or gain according to licence; private intercity vehicles are those owned and operated by firms and individuals on intercity routes to transport their own goods; private urban vehicles are those operated only within urban areas; and farm trucks are those operated by farmers primarily to transport farm produce and supplies.

Since intercity for hire trucks ("P.C.V.'s") are the only class to be registered separately in Ontario, it is necessary to use completed questionnaires to classify privately operated vehicles in the sample as "intercity", "urban" and "farm".

In this report vehicles have been classified into four functional categories as follows:

For hire	—Public Commercial Vehicles (P.C.V.) operated for compensation beyond urban areas.
Private intercity	—Private non-farm trucks operated beyond urban areas.
Private urban	—Private and commercial vehicles operated predominantly within urban areas.
Farm	—Trucks owned and operated by farmers.

A number of urban trucks are operated for compensation but these vehicles were not included in the for hire category. As a result, the data shown throughout this report as "for hire" are understated and those for the "private urban" category are overstated by the extent of those urban for hire vehicles classified as "private urban".

Further information on the history and the organization of motor transport traffic surveys may be found in the reports entitled "Motor Transport Traffic, National Estimates", Catalogue No. 53-207, for 1957 to 1961.

Expansion of Survey Results

As this survey is conducted on a sample basis the data obtained for the vehicles included in the sample have to be expanded to represent the traffic of the total truck population. The methods used in this expansion of the raw data have been continually improved. Current procedures are:

1. A truck population has to be determined. As each sample is selected quarterly the number of trucks chosen in each sample multiplied by the inverse of the sample selection ratio provides an estimated quarterly population. Prior to 1959 the data for each quarterly sample were expanded to represent the total traffic of the estimated population of the same quarter. In 1959, however, it was decided that it would be preferable to expand data for the four quarterly surveys using a constant population. This constant population would be the peak quarterly population of the previous year

calculated by multiplying the sample in each quarter by the inverse of the sample selection ratios.

2. The constant population has to be broken down into gross vehicle weight groups and functions. This is already partially done as sample selections are stratified by weight group. Therefore it is only necessary to multiply the sample in each weight group by the inverse of the appropriate selection ratio to arrive at a quarterly population broken down by weight group. The four quarterly populations by gross vehicle weight are added together and an average weight group distribution for the year is computed. This weight group distribution is applied to the constant population. The population then has to be distributed by function. This is done by using the average distribution obtained from all the previous year's

completed questionnaires. The above procedure was introduced in 1959. Prior to that year the distribution by function was determined from completed questionnaires for each quarter separately.

A further improvement was made for the 1960 report. Since that year the actual number of P.C.V. registered trucks and tractors by gross vehicle weight for the previous registration year has been used to estimate the for hire population for the current year. Therefore, the actual P.C.V. population for 1961 was used to arrive at an estimate of the 1962 for hire segment of the truck population. As trailers are licensed separately from tractors in Ontario the gross vehicle weights of tractors in the P.C.V. population were adjusted to combined tractor-trailer gross vehicle weights on the basis of completed questionnaires.

The procedures introduced in 1959 to determine a breakdown of population by function and gross vehicle weight now only apply to private intercity, private urban and farm vehicles.

3. When the constant population has been calculated and broken down by function and gross vehicle weight group, it is necessary to allocate vehicles included in current surveys in the same manner. For private intercity, private urban and farm vehicles this can only be done from completed questionnaires as they do not have distinctive licence categories. For hire vehicles can be identified immediately by their P.C.V. licence.

4. Expansion ratios for each gross vehicle weight group of each functional category are then calculated by determining for each breakdown the number of vehicles for which completed questionnaires were received or which were not in use during the survey period and dividing this sum into the constant population.

5. As the survey results for sample vehicles relate to one week's operations the expansion ratios calculated in (4) have to be multiplied by 13 to cover the three month period.
6. The expanded data for the four quarters are added together to arrive at an annual total.

While the changes and improvements in methods of compilation mentioned above will to some extent influence comparisons of data between years the effects should not be overly significant. In addition it is emphasized that since the statistics contained in this report are calculated from a sample survey they are only estimates and not actual figures.

It should be noted that in 1961 the description of commodities transported by trucks was changed to conform with the revised "Standard Commodity Classification" produced by the Dominion Bureau of Statistics. Formerly commodities were classified according to the "Railway Freight Commodity Statistics Classification". The change will enable these data to be compared more easily with other commodity data produced by the Dominion Bureau of Statistics.

Review of Survey Results

The estimated population of trucks performing transportation services in Ontario during 1962 increased 1.4 per cent to 296,500 from 292,300 in 1961. Of these 21,600 or 7.3 per cent were for hire trucks; 64,258 or 21.7 per cent were private intercity vehicles; 144,143 or 48.6 per cent were private vehicles operating wholly within urban areas and 66,499 or 22.4 per cent were farm trucks.

In the following tables blanks appear for some breakdowns of diesel fuel and other fuel by type of operation and by gross vehicle weight. In most of these instances no vehicles were chosen belonging to these classifications in any of the quarterly sample selections. However in one or two cases a few vehicles were selected but the data collected were considered too unreliable to publish. Even where no vehicles were selected it does not necessarily follow that there were no vehicles in the province belonging to these classifications.

Section I: Traffic Inside and Outside the Province

Section I contains estimates of total traffic performed both inside and outside the province by Ontario registered trucks.

Although comprising only 7.3 per cent of the Ontario truck population, for hire vehicles accounted for 65.7 per cent of the total net ton miles and 43.8 per cent of the total tons carried during 1962. This results from the high average yearly mileage of these trucks of 25,700 miles as compared with 7,600 miles for all trucks and from the heavy average load carried of 11.4 tons compared to 5.9 tons for all trucks. Since over three quarters of all for hire vehicles have a gross vehicle weight of over 10 tons the heavier loads carried by these trucks are to be expected. The predominance of heavier vehicles in the for hire category also explains the low estimate of miles per gallon of gasoline 5.4 compared with 8.6 for all trucks.

It is estimated that urban operations accounted for 6.1 per cent of the total net ton miles performed by Ontario registered for hire trucks and 4.9 per cent of the total net ton miles performed by private intercity vehicles.

From the end of May until mid-July 1962 many major Ontario for hire carriers were involved in a labour dispute and virtually ceased operations during this period. The effects of this dispute are not too noticeable on the annual totals as the results for the remainder of the year were extremely good. This was to be expected as the economy was very buoyant throughout the year with the Gross National Product rising 8.0 per cent.

Some trucks in Ontario under 10,000 lb. gross vehicle weight are used essentially for personal transportation. Such vehicles accounted for about 10 per cent of the total mileage travelled by Ontario registered trucks.

Section II: Traffic Within the Province

This section presents estimates of traffic performed by Ontario registered trucks entirely inside the province and excludes the "Outside the Province" portion of interprovincial and international traffic as well as any traffic performed entirely outside the province. Comparing the data in Section I and Section II it will be noted that for hire vehicles accumulated 21.7 per cent and private intercity 12.2 per cent of their total net ton miles outside Ontario.

Section III: Interprovincial and International Traffic

Interprovincial and international traffic accounted for a significant proportion of the total traffic performed by for hire vehicles representing approximately one third of the total net ton miles performed and one fifth of the revenue earned by these vehicles. Almost three fifths of the total tons of goods carried in this type of traffic by Ontario registered for hire trucks was transported to or from Quebec and one quarter to or from the United States.

Appendix

During the year survey questionnaires were sent to the owners or operators of 34,654 trucks. Of this number 15,431 were returned completed and 9,265 trucks were reported not used during the

survey week. The remaining 9,958 were either returned incomplete and unusable or not returned at all.

September 30, 1963.

**SECTION I. TRAFFIC PERFORMED BY ONTARIO REGISTERED TRUCKS INSIDE AND OUTSIDE THE PROVINCE
JANUARY 1 – DECEMBER 31, 1962**

TABLE 1. All Trucks by Type of Operation

	For hire	Private			Total	
		Intercity	Urban	Farm		
Mileage:						
Total mileage travelled	'000	554,536	688,671	800,602	196,739	2,240,548
Average yearly mileage per truck		25,700	10,700	5,600	3,000	7,600
Average distance each ton was carried		51.7	40.9	9.2	13.8	34.4
Percentage of total mileage travelled empty		29.4	52.6	54.5	66.4	48.7
Fuel:						
Total gallons of gasoline consumed	'000	77,699	72,860	76,613	14,655	241,827
Miles per gallon of gasoline		5.4	9.0	10.4	13.4	8.6
Total gallons of diesel oil consumed	'000	20,559	5,765	—	—	26,324
Miles per gallon of diesel oil		6.4	6.3	—	—	6.4
Total gallons of other fuel consumed	'000	—	—	—	—	—
Miles per gallon of other fuel		—	—	—	—	—
Weight of goods carried:						
Total tons of goods carried	'000	86,048	40,526	65,590	4,364	196,528
Average weight carried ¹	ton	11.4	5.1	1.7	0.9	5.9
Net ton miles:						
Total net ton miles performed	'000	4,447,275	1,656,703	603,014	60,363	6,767,355
Average net ton miles per truck		205,900	25,800	4,200	900	22,800
Capacity ton miles:						
Total capacity ton miles ²	'000	8,296,711	4,084,058	2,003,187	261,047	14,645,003
Average capacity ton miles per truck		384,100	63,600	13,900	3,900	49,400
Percentage of capacity utilized		53.6	40.6	30.1	23.1	46.2
Gross ton miles:						
Total gross ton miles ³	'000	10,198,832	4,839,200	2,805,929	441,847	18,285,808
Average gross ton miles per truck		472,200	75,300	19,500	6,600	61,700
Revenue:						
Total revenue	\$'000	284,344	—	—	—	—
Revenue per ton mile	¢	6.4	—	—	—	—
Revenue per mile (total mileage travelled)	¢	51.3	—	—	—	—
Average revenue per truck	\$	13,200	—	—	—	—
Estimated annual population		21,600	64,258	144,143	66,499	296,500

TABLE 2. All Trucks by Gross Vehicle Weight Group

	0-2½ tons 0-5,000 lb.	2½-5 tons 5,001-10,000 lb.	5-7½ tons 10,001-15,000 lb.	7½-10 tons 15,001-20,000 lb.	10-15 tons 20,001-30,000 lb.	Over 15 tons 30,001 lb. and over	Total
Mileage:							
Total mileage travelled '000	804,352	329,346	95,658	150,316	318,075	542,801	2,240,548
Average yearly mileage per truck	4,900	5,600	7,100	8,000	14,600	29,000	7,600
Average distance each ton was carried	15.2	20.6	16.0	17.4	12.7	62.9	34.4
Percentage of total mileage travelled empty	70.9	44.0	33.9	35.0	42.1	29.1	48.7
Fuel:							
Total gallons of gasoline consumed '000	54,617	29,055	11,002	20,141	46,490	80,522	241,827
Miles per gallon of gasoline	14.7	11.3	8.7	7.5	6.8	4.6	8.6
Total gallons of diesel oil consumed '000	—	—	—	—	—	26,324	26,324
Miles per gallon of diesel oil	—	—	—	—	—	6.4	6.4
Total gallons of other fuel consumed '000	—	—	—	—	—	—	—
Miles per gallon of other fuel	—	—	—	—	—	—	—
Weight of goods carried:							
Total tons of goods carried '000	4,093	6,437	6,877	16,541	80,668	81,912	196,528
Average weight carried ¹ ton	0.3	0.7	1.7	2.9	5.6	13.4	5.9
Net ton miles:							
Total net ton miles performed '000	62,263	132,741	109,907	287,161	1,025,687	5,149,596	6,767,355
Average net ton miles per truck	400	2,300	8,100	15,300	47,000	275,200	22,800
Capacity ton miles:							
Total capacity ton miles ² '000	667,313	473,991	310,400	782,177	2,643,112	9,768,010	14,645,003
Average capacity ton miles per truck	4,000	8,100	22,900	41,600	121,100	522,000	49,400
Percentage of capacity utilized	9.3	28.0	35.4	36.7	38.8	52.7	46.2
Gross ton miles:							
Total gross ton miles ³ '000	1,414,949	875,057	439,054	902,520	2,683,498	11,970,730	18,285,808
Average gross ton miles per truck	8,600	14,900	32,400	48,000	123,000	639,700	61,700
Estimated annual population	164,845	58,747	13,568	18,806	21,822	18,712	296,500

See footnotes at end of Table 6, page 10.

TABLE 3. Selected Statistics by Gross Vehicle Weight Group

Gross vehicle weight	For hire						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton	Total revenue	Revenue per ton mile
	'000 tons	'000	'000	tons	miles	\$'000	¢
20,000 lb. and under	5,405	30,503	64,078	2.1	11.9	21,932	34.2
20,001-30,000 lb.	42,699	75,038	496,397	6.6	11.6	44,018	8.9
30,001-50,000 lb.	14,156	58,439	506,056	8.7	35.7	45,805	9.1
50,001 lb. and over	23,788	227,699	3,380,744	14.8	142.1	172,589	5.1
Totals	86,048	391,679	4,447,275	11.4	51.7	284,344	6.4
	Private intercity						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton		
	'000 tons	'000	'000	tons	miles		
10,000 lb. and under	1,896	115,460	52,400		0.5		27.6
10,001-20,000 lb.	5,116	62,424	148,619		2.4		29.0
20,001-30,000 lb.	13,897	69,053	346,966		5.0		25.0
30,001-50,000 lb.	7,841	27,640	238,674		8.6		30.4
50,001 lb. and over	11,776	51,730	870,044		16.8		73.9
Totals	40,526	326,307	1,656,703		5.1		40.9

TABLE 4. Selected Statistics by Commodity Group

Commodity group	For hire						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton	Total revenue	Revenue per ton mile
	'000 tons	'000	'000	tons	miles	\$'000	¢
Live animals.....	860	11,207	74,137	6.6	86.2	6,160	8.3
Food, feed, beverages and tobacco.....	5,433	64,170	746,094	11.6	137.3	36,359	4.9
Crude materials, inedible	53,522	56,098	666,413	11.9	12.5	34,555	5.2
Fabricated materials, inedible	11,432	65,948	1,048,752	15.9	91.7	53,943	5.1
End products, inedible	4,022	79,251	619,050	7.8	153.9	58,689	9.5
General freight	10,779	115,005	1,292,829	11.2	119.9	94,638	7.3
Totals	86,048	391,679	4,447,275	11.4	51.7	284,344	6.4
	Private intercity						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton		
	'000 tons	'000	'000	tons	miles		
Live animals.....	295	6,069	22,981		3.8		77.9
Food, feed, beverages and tobacco	7,505	113,577	453,634		4.0		60.4
Crude materials, inedible	12,935	33,347	267,364		8.0		20.7
Fabricated materials, inedible	15,638	68,630	645,279		9.4		41.3
End products, inedible	2,439	73,864	190,263		2.6		78.0
General freight	1,714	30,820	77,182		2.5		45.0
Totals	40,526	326,307	1,656,703		5.1		40.9

**SECTION II. TRAFFIC PERFORMED BY ONTARIO REGISTERED TRUCKS WITHIN THE PROVINCE
JANUARY 1 – DECEMBER 31, 1962**

TABLE 5. All Trucks by Type of Operation

		For hire	Private			Total
			Intercity	Urban	Farm	
Mileage:						
Total mileage travelled	'000	470,071	655,799	800,602	196,739	2,123,211
Average yearly mileage per truck		21,800	10,200	5,600	3,000	7,200
Average distance each ton was carried.....		40.8	36.3	9.2	13.8	28.6
Percentage of total mileage travelled empty		31.4	53.4	54.5	66.4	50.1
Fuel:						
Total gallons of gasoline consumed	'000	72,044	69,620	76,613	14,655	232,932
Miles per gallon of gasoline		5.5	9.0	10.4	13.4	8.7
Total gallons of diesel oil consumed	'000	12,112	4,274	—	—	16,386
Miles per gallon of diesel oil		6.4	6.1	—	—	6.3
Total gallons of other fuel consumed	'000	—	—	—	—	—
Miles per gallon of other fuel		—	—	—	—	—
Weight of goods carried:						
Total tons of goods carried	'000	85,403	40,060	65,590	4,364	195,411
Average weight carried ¹	ton	10.8	4.8	1.7	0.9	5.3
Net ton miles:						
Total net ton miles performed.....	'000	3,480,219	1,454,814	603,014	60,363	5,598,410
Average net ton miles per truck		161,100	22,600	4,200	900	18,900
Capacity ton miles:						
Total capacity ton miles ²	'000	6,788,765	3,693,697	2,003,187	261,047	12,746,696
Average capacity ton miles per truck		314,300	57,500	13,900	3,900	43,000
Percentage of capacity utilized		51.3	39.4	30.1	23.1	43.9
Gross ton miles:						
Total gross ton miles ³	'000	8,163,254	4,373,116	2,805,929	441,847	15,784,146
Average gross ton miles per truck		377,900	68,100	19,500	6,600	53,200
Revenue:						
Total revenue	\$'000	250,089	—	—	—	—
Revenue per ton mile	¢	7.2	—	—	—	—
Revenue per mile (total mileage travelled).....	¢	53.2	—	—	—	—
Average revenue per truck	\$	11,600	—	—	—	—
Estimated annual population		21,600	64,258	144,143	66,499	296,500

TABLE 6. All Trucks by Gross Vehicle Weight Group

	0 - 2½ tons 0-5000 lb.	2½-5 tons 5,001-10,000 lb.	5-7½ tons 10,001-15,000 lb.	7½-10 tons 15,001-20,000 lb.	10-15 tons 20,001-30,000 lb.	Over 15 tons 30,001 lb. and over	Total
Mileage:							
Total mileage travelled	'000	801,156	325,965	94,764	147,252	310,963	2,123,211
Average yearly mileage per truck		4,900	5,500	7,000	7,800	14,300	7,200
Average distance each ton was carried		15.0	20.3	15.9	16.9	12.4	28.6
Percentage of total mileage travelled empty		70.9	44.3	33.7	34.9	42.2	50.1
Fuel:							
Total gallons of gasoline consumed	'000	54,400	28,763	10,891	19,721	45,529	232,932
Miles per gallon of gasoline		14.7	11.3	8.7	7.5	6.8	8.7
Total gallons of diesel oil consumed	'000	—	—	—	—	—	16,386
Miles per gallon of diesel oil		—	—	—	—	—	6.3
Total gallons of other fuel consumed	'000	—	—	—	—	—	—
Miles per gallon of other fuel		—	—	—	—	—	—
Weight of goods carried:							
Total tons of goods carried	'000	4,093	6,417	6,874	16,464	80,573	195,417
Average weight carried ¹	ton	0.3	0.7	1.7	2.9	5.6	5.3
Net ton miles:							
Total net ton miles performed	'000	61,479	130,526	108,986	278,574	1,002,683	5,598,410
Average net ton miles per truck		400	2,200	8,000	14,800	45,900	18,900
Capacity ton miles:							
Total capacity ton miles ²	'000	664,103	468,616	307,637	762,119	2,587,014	12,746,696
Average capacity ton miles per truck		4,000	8,000	22,700	40,500	118,600	43,000
Percentage of capacity utilized		9.3	27.9	35.4	36.6	38.8	43.9
Gross ton miles:							
Total gross ton miles ³	'000	1,408,885	865,071	435,194	880,982	2,624,779	15,784,146
Average gross ton miles per truck		8,500	14,700	32,100	46,800	120,300	53,200
Estimated annual population		164,845	58,747	13,568	18,806	21,822	296,500

¹ Ton miles divided by miles travelled with load.² Capacity ton miles are determined by multiplying the actual number of miles travelled by the estimated capacity or the weight of the heaviest load carried, whichever is larger.³ Gross ton miles performed are determined by adding to the total ton miles performed, the weight of the vehicle empty (tare) multiplied by total miles travelled.

**SECTION III. INTERPROVINCIAL AND INTERNATIONAL TRAFFIC PERFORMED BY ONTARIO REGISTERED TRUCKS
JANUARY 1–DECEMBER 31, 1962**

TABLE 7. Tons of Goods Carried by Province of Origin and Destination

Origin and destination	For hire			Private intercity			Total		
	Into Ontario	Out of Ontario	Total	Into Ontario	Out of Ontario	Total	Into Ontario	Out of Ontario	Total
	'000 tons								
Newfoundland	—	—	—	—	—	—	—	—	—
Prince Edward Island	—	—	—	—	—	—	—	—	—
Nova Scotia	7	17	24	—	—	—	7	17	24
New Brunswick	13	14	27	—	1	1	13	15	28
Quebec	801	1, 157	1, 958	213	441	654	1, 014	1, 598	2, 612
Manitoba	157	138	295	32	21	53	189	159	348
Saskatchewan	2	13	15	—	1	1	2	14	16
Alberta	42	61	103	—	2	2	42	63	105
British Columbia	25	14	39	—	—	—	25	14	39
Yukon and Northwest Territories	—	—	—	—	—	—	—	—	—
United States	391	448	839	276	235	511	667	683	1, 350
Totals	1, 438	1, 862	3, 300	521	701	1, 222	1, 959	2, 563	4, 522

TABLE 8. Selected Statistics by Commodity Group

Commodity group	For hire						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton	Total revenue	Revenue per ton mile
	'000 tons	'000	'000	tons	miles	\$'000	¢
Live animals	51	2, 105	20, 253	9. 6	393. 3	932	4. 6
Food, feed, beverages and tobacco	557	20, 169	295, 834	14. 7	531. 2	8, 878	3. 0
Crude materials, inedible	205	4, 106	70, 848	17. 3	345. 9	1, 886	2. 7
Fabricated materials, inedible	956	15, 959	253, 971	15. 9	265. 8	10, 105	4. 0
End products, inedible	607	28, 659	264, 885	9. 2	436. 6	16, 588	6. 3
General freight	924	38, 155	584, 157	15. 3	632. 0	21, 642	3. 7
Totals	3, 300	109, 153	1, 489, 948	13. 7	451. 5	60, 031	4. 0
	Private intercity						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton		
	'000 tons	'000	'000	tons	miles		
Live animals	14	605	4, 596	7. 6	337. 4		
Food, feed, beverages and tobacco	323	7, 617	89, 319	11. 7	276. 0		
Crude materials, inedible	197	2, 857	33, 015	11. 6	167. 5		
Fabricated materials, inedible	471	5, 311	74, 901	14. 1	159. 1		
End products, inedible	150	7, 709	46, 223	6. 0	307. 9		
General freight	67	1, 706	22, 232	13. 0	331. 9		
Totals	1, 222	25, 805	270, 286	10. 5	221. 1		

APPENDIX

Type of operation	A. Population						
	0-2½ tons 0-5,000 lb.	2½-5 tons 5,001-10,000 lb.	5-7½ tons 10,001-15,000 lb.	7½-10 tons 15,001-20,000 lb.	10-15 tons 20,001-30,000 lb.	Over 15 tons 30,001 lb. and over	Total
Estimated Ontario truck population in 1962							
For hire	245	802	1,038	2,426	6,926	10,163	21,600
Private:							
Intercity	29,419	12,857	3,266	6,428	7,624	4,664	64,258
Urban	86,312	30,525	7,860	8,833	6,735	3,878	144,143
Farm	48,869	14,563	1,404	1,119	537	7	66,499
Totals	164,845	58,747	13,568	18,806	21,822	18,712	296,500
B. Survey Response							
	Total number of trucks selected in samples	Number of questionnaires returned completed		Number of sampled trucks reported not in use during survey week		Number of questionnaires not returned or returned incomplete and unusable	
For hire	9,620	4,338		2,366		2,916	
Private:							
Intercity	10,438	4,686		2,837		2,915	
Urban	12,075	5,320		3,385		3,370	
Farm	2,521	1,087		677		757	
Totals	34,654	15,431		9,285		9,958	

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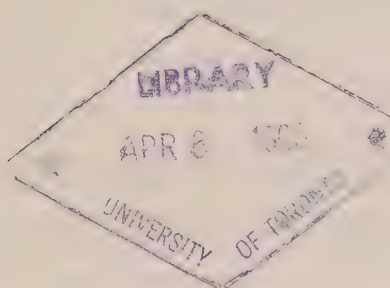
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ANNUAL

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MOTOR TRANSPORT TRAFFIC
PROVINCE OF ONTARIO
1963



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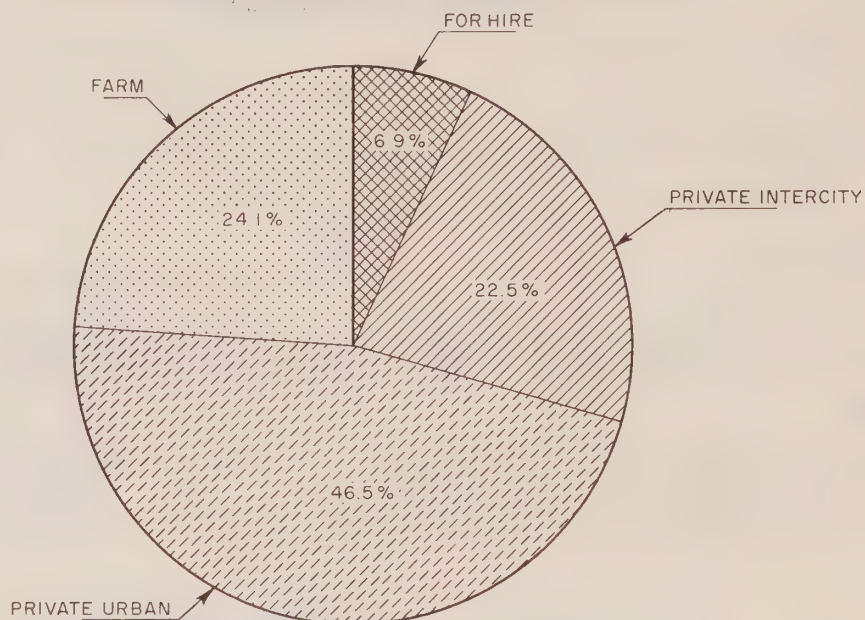
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PROVINCE OF ONTARIO
JANUARY 1—DECEMBER 31, 1963

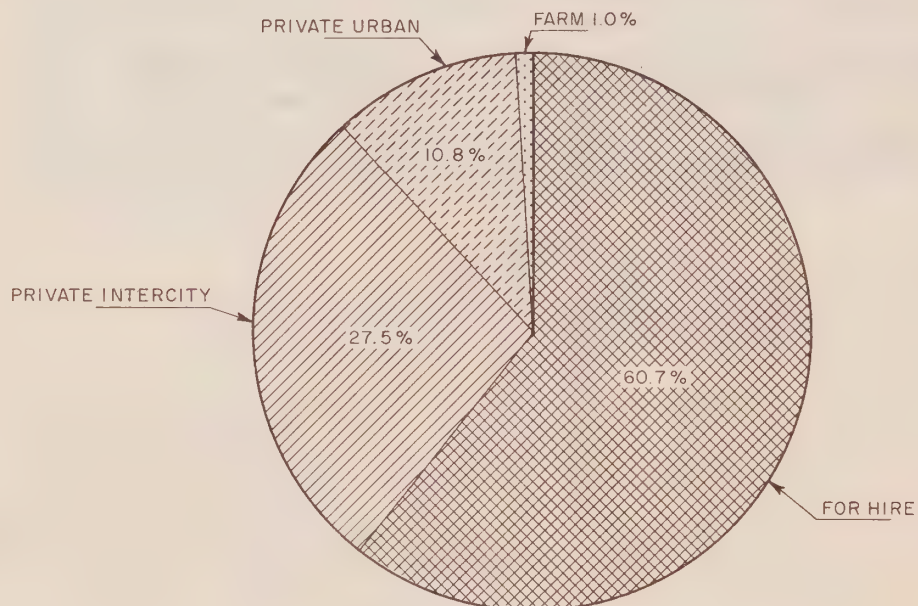
CHART—1

TRUCK REGISTRATIONS BY TYPE OF OPERATION



CHART—2

NET TON MILES BY TYPE OF OPERATION



INTRODUCTION

The 1963 annual report of motor transport traffic in the Province of Ontario is based upon a sample of approximately 12 per cent of trucks registered in the province. To allow for seasonal variations in traffic and to ensure that the selected vehicles represented current registrations the sample was selected in four quarterly segments with approximately one fourth of the total selected each quarter. Each quarterly sample was spread over three survey weeks with one third of the sample being used for a seven day period, Sunday through Saturday, per month. The surveys were therefore spread over twelve weeks during the year.

All trucks registered in the province are represented except: (a) those not engaged in transportation services; and (b) military and other government-owned vehicles. Trailers as such were excluded from the sample, but details of tractor-trailer combinations were obtained by including the power units or tractors in the survey.

Vehicles in the sample are stratified by type of operation and by gross vehicle weight group. The four functional categories used are: for hire, private intercity, private urban and farm. For hire vehicles are those operated for compensation or gain according to licence; private intercity vehicles are those owned and operated by firms and individuals on intercity routes to transport their own goods; private urban vehicles are those operated only within urban areas; and farm trucks are those operated by farmers primarily to transport farm produce and supplies.

Since intercity for hire trucks ("PCV's") are the only class to be registered separately in Ontario,

it is necessary to use completed questionnaires to classify privately operated vehicles in the sample as "intercity", "urban" and "farm".

In this report vehicles have been classified into four functional categories as follows:

For hire	— Public Commercial Vehicles (PCV) operated for compensation beyond urban areas.
Private intercity	— Private non-farm trucks operated beyond urban areas.
Private urban	— Private and commercial vehicles operated predominantly within urban areas.
Farm	— Trucks owned and operated by farmers.

A number of urban trucks are operated for compensation but these vehicles were not included in the for hire category. As a result, the data shown throughout the report as "for hire" are understated and those for the "private urban" category are overstated by the extent of those urban for hire vehicles classified as "private urban".

Further information on the necessity and history of the survey may be found in the report entitled "Motor Transport Traffic, National Estimates, 1957". Additional data and information concerning survey results and methods may be found in the National Estimates, 1958 to 1962, Catalogue Number 53-207.

Expansion of Survey Results

As this survey is conducted on a sample basis the data obtained for the vehicles included in the sample have to be expanded to represent traffic of the total truck population. The methods used in this expansion of the raw data have been continually improved. Current procedures are:

1. A truck population has to be determined. As each sample is selected quarterly the number of trucks chosen in each sample multiplied by the inverse of the sample selection ratio provides an estimated quarterly population. Prior to 1959 the data for each quarterly sample were expanded to represent the total traffic of the estimated population of the same quarter. In 1959, however, it was decided that it would be preferable to expand data for the four quarterly surveys using a constant population. This constant population would be the peak quarterly population of the previous year

calculated by multiplying the sample in each quarter by the inverse of the sample selection ratios.

2. The constant population has to be broken down into gross vehicle weight groups and functions. This is already partially done as sample selections are stratified by weight group. Therefore, it is only necessary to multiply the sample in each weight group by the inverse of the appropriate selection ratio to arrive at a quarterly population broken down by weight group. The four quarterly populations by gross vehicle weight are added together and an average weight group distribution for the year is computed. This weight group distribution is applied to the constant population. The population then has to be distributed by function. This is done by using the average distribution obtained from all the previous year's

completed questionnaires. The above procedure was introduced in 1959. Prior to that year the distribution by function was determined from completed questionnaires for each quarter separately.

A further improvement was made for the 1960 report. Since that year the actual number of PCV registered trucks and tractors by gross vehicle weight for the previous registration year has been used to estimate the for hire population for the current year. Therefore, the actual PCV population for 1962 was used to arrive at an estimate of the 1963 for hire segment of the truck population. As trailers are licensed separately from tractors in Ontario the gross vehicle weights of tractors in the PCV population were adjusted to combined tractor-trailer gross vehicle weights on the basis of completed questionnaires.

The procedures introduced in 1959 to determine a breakdown of population by function and gross vehicle weight now only apply to private intercity, private urban and farm vehicles.

3. When the constant population has been calculated and broken down by function and gross vehicle weight group, it is necessary to allocate vehicles included in current surveys in the same manner. For private intercity, private urban and farm vehicles this can only be done from completed questionnaires because they do not have distinctive licence categories. For hire vehicles can be identified immediately by their PCV licence.

4. Expansion ratios for each gross vehicle weight group of each functional category are then calculated by determining for each breakdown the number of vehicles for which completed questionnaires were received or which were not in use during the survey period and dividing this sum into the constant population.

5. Because the survey results for sample vehicles relate to one week's operations the expansion ratios calculated in (4) have to be multiplied by 13 to cover the three month period.

6. The expanded data for the four quarters are added together to arrive at an annual total.

While the changes and improvements in methods of compilation mentioned above will to some extent influence comparisons of data between years the effects should not be overly significant. In addition it is emphasized that since the statistics contained in this report are calculated from a sample survey they are not actual figures but rather only estimates.

It should be noted that in 1961 the description of commodities transported by trucks was changed to conform with the revised "Standard Commodity Classification" produced by the Dominion Bureau of Statistics. Formerly commodities were classified according to the "Railway Freight Commodity Statistics Classification". The change will enable these data to be compared more easily with other commodity data produced by the Dominion Bureau of Statistics.

Review of Survey Results

The estimated population of trucks performing transportation services in Ontario during 1963 increased 0.7 per cent to 298,600 from 296,500 in 1962. Of these 20,600 or 6.9 per cent were for hire trucks; 67,084 or 22.5 per cent were private intercity vehicles; 138,989 or 46.5 per cent were private vehicles operating wholly within urban areas and 71,927 or 24.1 per cent were farm trucks.

In the following tables blanks appear for some breakdowns of diesel fuel and other fuel by type of operation and by gross vehicle weight. In most of these instances no vehicles were chosen belonging to these classifications in any of the quarterly sample selections. However, in one or two cases a few vehicles were selected but the data collected were considered too unreliable to publish. Even where no vehicles were selected it does not necessarily follow that there were no vehicles in the province belonging to these classifications.

Section I: Traffic Inside and Outside the Province

Section 1 contains estimates of total traffic performed both inside and outside the province by Ontario registered trucks.

Although comprising only 6.9 per cent of the Ontario truck population, for hire vehicles accounted for 60.7 per cent of the total net ton miles and 42.7 per cent of the total tons carried during 1963. This results from the high average yearly mileage of these trucks of 24,800 miles compared to 7,400 miles for all trucks and from the heavy average load carried of 10.6 tons compared to 5.4 tons for all trucks. Since over three quarters of all for hire vehicles have a gross vehicle weight of over 10 tons the heavier loads carried by these trucks are to be expected. The predominance of heavier vehicles in the for hire category also explains the low estimate of 5.7 miles per gallon of gasoline compared to 8.8 for all trucks.

It is estimated that urban operations accounted for 7.6 per cent of the total net ton miles performed by Ontario registered for hire trucks and 4.5 per cent of the total net ton miles performed by private inter-city vehicles.

In 1963 the estimated for hire truck population declined to 20,600 from 21,600 in 1962. One possible explanation for this may be found in the increasing use, especially by truckers involved in a seasonal business, of quarterly licences rather than annual registrations.

All trucks experienced a decline in total mileage travelled, average yearly mileage per truck, average distance each ton was carried, total gallons of gasoline and diesel oil consumed, total net ton miles performed, average net ton miles per truck, total gross ton miles and average gross ton miles per truck. It is important to note that in spite of these reductions in total traffic, for hire carriers reported increases in total revenue, revenue per ton mile, revenue per mile (total mileage travelled) and average revenue per truck. It is possible that the reductions in total traffic shown in the survey may be partially accounted for by the growth of railway piggyback operations. Detailed examination of the

effects of piggyback operations on highway traffic from the viewpoint of the Motor Transport Traffic Survey has not yet been undertaken, but it should be noted that the total tons of goods carried by railway trailer on flat car service increased by about 20 per cent from 1962 to 1963.

Section II: Traffic Within the Province

This section presents estimates of traffic performed by Ontario registered trucks entirely inside the province and excludes the "Outside the Province" portion of interprovincial and international traffic as well as any traffic performed entirely outside the province. Comparing the data in Section I and Section II it will be noted that for hire vehicles accumulated 86.2 per cent and private intercity 90.3 per cent of their total net ton miles inside Ontario.

Section III: Interprovincial and International Traffic

Interprovincial and international traffic accounted for approximately one quarter of the net ton miles performed by for hire vehicles and one fifth of the revenue. Almost three quarters of the total tons of goods carried in this type by Ontario registered for hire trucks was transported to or from Quebec and one fifth to or from the United States.

Appendix

During the year survey questionnaires were sent to the owners or operators of 35,147 trucks. Of this number 15,089 were returned completed and 8,722

trucks were reported not used during the survey week. The remaining 11,336 were either returned incomplete and unusable or not returned at all.

January 26, 1965.

**SECTION 1. TRAFFIC PERFORMED BY ONTARIO REGISTERED TRUCKS INSIDE AND OUTSIDE THE PROVINCE
JANUARY 1-DECEMBER 31, 1963**

TABLE 1. All Trucks by Type of Operation

	For hire	Private			Total	
		Intercity	Urban	Farm		
Mileage:						
Total mileage travelled	'000	511,428	708,645	760,454	235,951	2,216,478
Average yearly mileage per truck		24,800	10,600	5,500	3,300	7,400
Average distance each ton was carried		41.5	39.1	9.2	12.8	29.2
Percentage of total mileage travelled empty		32.2	51.6	53.2	69.7	49.6
Fuel:						
Total gallons of gasoline consumed	'000	74,229	73,297	71,662	17,199	236,387
Miles per gallon of gasoline		5.7	9.1	10.6	13.7	8.8
Total gallons of diesel oil consumed	'000	15,022	6,447	641	—	22,110
Miles per gallon of diesel oil		6.1	6.4	5.8	—	6.2
Total gallons of other fuel consumed	'000	63	265	—	—	328
Miles per gallon of other fuel		6.1	7.1	—	—	6.9
Weight of goods carried:						
Total tons of goods carried	'000	88,432	42,551	71,660	4,620	207,263
Average weight carried ¹	ton	10.6	4.9	1.8	0.8	5.4
Net ton miles:						
Total net ton miles performed	'000	3,671,446	1,665,406	655,984	59,304	6,052,140
Average net ton miles per truck		178,200	24,800	4,700	800	20,300
Capacity ton miles:						
Total capacity ton miles ²	'000	7,437,721	4,172,684	2,026,038	299,186	13,935,629
Average capacity ton miles per truck		361,100	62,201	14,600	4,200	46,700
Percentage of capacity utilized		49.4	39.9	32.4	19.8	43.4
Gross ton miles:						
Total gross ton miles ³	'000	8,795,586	4,912,205	2,712,147	505,756	16,925,694
Average gross ton miles per truck		427,000	73,200	19,500	7,000	56,700
Revenue:						
Total revenue	\$'000	286,500	—	—	—	—
Revenue per ton mile	¢	7.8	—	—	—	—
Revenue per mile (total mileage travelled)	¢	56.0	—	—	—	—
Average revenue per truck	\$	13,900	—	—	—	—
Estimated annual population		20,600	67,084	138,989	71,927	298,600

TABLE 2. All Trucks by Gross Vehicle Weight Group

	0-2½ tons 0-5,000 lb.	2½-5 tons 5,001-10,000 lb.	5-7½ tons 10,000-15,000 lb.	7½-10 tons 15,001-20,000 lb.	10-15 tons 20,001-30,000 lb.	Over 15 tons 30,001 lb. and over	Total
Mileage:							
Total mileage travelled '000	823,217	338,608	90,034	148,353	311,430	504,836	2,216,478
Average yearly mileage per truck	5,000	5,500	6,600	8,000	14,400	28,400	7,400
Average distance each ton was carried	13.7	16.0	16.2	16.1	12.6	49.0	29.2
Percentage of total mileage travelled empty	70.6	44.0	32.7	33.6	40.7	32.3	49.6
Fuel:							
Total gallons of gasoline consumed '000	55,983	30,587	10,528	19,793	44,206	75,290	236,387
Miles per gallon of gasoline	14.7	11.1	8.6	7.5	7.0	4.9	8.8
Total gallons of diesel oil consumed '000	—	—	—	—	—	22,110	22,110
Miles per gallon of diesel oil	—	—	—	—	—	6.2	6.2
Total gallons of other fuel consumed '000	—	—	—	—	194	134	328
Miles per gallon of other fuel	—	—	—	—	7.7	5.9	6.9
Weight of goods carried:							
Total tons of goods carried '000	4,537	7,770	5,349	16,799	81,289	91,519	207,263
Average weight carried ¹ ton	0.3	0.7	1.4	2.8	5.5	13.1	5.4
Net ton miles:							
Total net ton miles performed '000	62,131	124,280	86,518	271,026	1,022,697	4,485,488	6,052,140
Average net ton miles per truck	400	2,000	6,400	14,600	47,400	252,000	20,300
Capacity ton miles:							
Total capacity ton miles ² '000	689,785	501,597	282,912	772,509	2,596,665	9,092,161	13,935,629
Average capacity ton miles per truck	4,200	8,200	20,900	41,700	120,400	510,800	46,700
Percentage of capacity utilized	9.0	24.8	30.6	35.1	39.4	49.3	43.4
Gross ton miles:							
Total gross ton miles ³ '000	1,442,249	896,475	397,929	874,619	2,602,480	10,711,942	16,925,694
Average gross ton miles per truck	8,700	14,700	29,400	47,200	120,600	602,100	56,700
Estimated annual population	165,978	61,180	13,556	18,515	21,572	17,799	298,600

TABLE 3. Selected Statistics by Gross Vehicle Weight Group

Gross vehicle weight	For hire						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton	Total revenue	Revenue per ton mile
	'000 tons	'000	'000	ton	miles	\$'000	¢
20,000 lb. and under	4, 136	31, 954	71, 457	2. 2	17. 3	24, 771	34. 7
20,001- 30,000 lb.	42, 923	78, 025	492, 144	6. 3	11. 5	48, 355	9. 8
30,001- 50,000 "	18, 633	54, 485	453, 155	8. 3	24. 3	47, 878	10. 6
50,001 lb. and over	22, 740	182, 495	2, 654, 690	14. 5	116. 7	165, 496	6. 2
Totals	88, 432	346, 959	3, 671, 446	10. 6	41. 5	286, 500	7. 8
	Private intercity						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton		
	'000 tons	'000	'000	tons	miles		
10,000 lb. and under	2, 012	126, 512	59, 627		0. 5	29. 6	
10,001- 20,000 lb.	5, 025	64, 537	146, 011		2. 3	29. 1	
20,001- 30,000 "	13, 209	68, 837	327, 382		4. 8	24. 8	
30,001- 50,000 "	8, 556	27, 383	239, 149		8. 7	27. 9	
50,001 lb. and over	13, 749	55, 703	893, 237		16. 0	65. 0	
Totals	42, 551	342, 972	1, 665, 406		4. 9	39. 1	

TABLE 4. Selected Statistics by Commodity Group

Commodity group	For hire						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton	Total revenue	Revenue per ton mile
	'000 tons	'000	'000	tons	miles	\$'000	¢
Live animals	803	10,232	61,757	6.0	76.9	6,258	10.1
Food, feed, beverages and tobacco	5,957	56,237	588,645	10.5	98.8	36,307	6.2
Crude materials, inedible	57,181	54,778	629,556	11.5	11.0	37,623	6.0
Fabricated materials, inedible	11,416	61,898	979,630	15.8	85.8	50,487	5.2
End products, inedible	4,316	79,883	595,581	7.5	138.0	65,997	11.1
General freight.....	8,759	83,931	816,277	9.7	93.2	89,828	11.0
Totals	88,432	346,959	3,671,446	10.6	41.5	286,500	7.8
	Private intercity						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton		
	'000 tons	'000	'000	tons	miles		
Live animals	262	4,556	18,718		4.1	71.4	
Food, feed, beverages and tobacco	7,358	120,223	485,898		4.0	66.0	
Crude materials, inedible	13,501	31,377	269,720		8.6	20.0	
Fabricated materials, inedible	16,839	68,057	638,148		9.4	37.9	
End products, inedible	2,907	94,685	202,428		2.1	69.6	
General freight.....	1,684	24,074	50,494		2.1	30.0	
Totals	42,551	342,972	1,665,406		4.9	39.1	

**SECTION II. TRAFFIC PERFORMED BY ONTARIO REGISTERED TRUCKS WITHIN THE PROVINCE
JANUARY 1-DECEMBER 31, 1963**

TABLE 5. All Trucks by Type of Operation

		For hire	Private			Total
			Intercity	Urban	Farm	
Mileage:						
Total mileage travelled	'000	459,152	678,799	760,454	235,951	2,134,356
Average yearly mileage per truck		22,300	10,100	5,500	3,300	7,100
Average distance each ton was carried		36.0	35.8	9.2	12.8	26.1
Percentage of total mileage travelled empty		33.0	51.7	53.2	69.7	50.2
Fuel:						
Total gallons of gasoline consumed	'000	68,916	70,493	71,662	17,199	228,270
Miles per gallon of gasoline		5.7	9.1	10.6	13.7	8.9
Total gallons of diesel oil consumed	'000	11,093	5,345	641	—	17,079
Miles per gallon of diesel oil		6.0	6.4	5.8	—	6.1
Total gallons of other fuel consumed	'000	18	216	—	—	234
Miles per gallon of other fuel		6.0	6.7	—	—	6.7
Weight of goods carried:						
Total tons of goods carried	'000	87,863	41,963	71,660	4,620	206,106
Average weight carried ¹	ton	10.3	4.6	1.8	0.8	5.1
Net ton miles:						
Total net ton miles performed	'000	3,164,132	1,503,512	655,984	59,304	5,382,932
Average net ton miles per truck		153,600	22,400	4,700	800	18,000
Capacity ton miles:						
Total capacity ton miles ²	'000	6,549,918	3,861,413	2,026,038	299,186	12,736,555
Average capacity ton miles per truck		318,000	57,600	14,600	4,200	42,700
Percentage of capacity utilized		48.3	38.9	32.4	19.8	42.3
Gross ton miles:						
Total gross ton miles ³	'000	7,650,700	4,526,211	2,712,147	505,756	15,394,814
Average gross ton miles		371,400	67,500	19,500	7,000	51,600
Revenue:						
Total revenue	\$'000	254,600	—	—	—	—
Revenue per ton mile	¢	8.0	—	—	—	—
Revenue per mile (total mileage travelled)	¢	55.5	—	—	—	—
Average revenue per truck	\$	12,400	—	—	—	—
Estimated annual population		20,600	67,084	138,989	71,927	298,600

TABLE 6. All Trucks by Gross Vehicle Weight Group

	0-2½ tons 0-5000 lb.	2½-5 tons 5,001-10,000 lb.	5-7½ tons 10,001-15,000 lb.	7½-10 tons 15,001-20,000 lb.	10-15 tons 20,001-30,000 lb.	Over 15 tons 30,001 lb. and over	Total
Mileage:							
Total mileage travelled	'000	818,410	335,726	89,300	142,859	305,678	2,134,356
Average yearly mileage per truck		4,900	5,500	6,600	7,700	14,200	7,100
Average distance each ton was carried		13.7	15.9	16.0	15.0	12.4	26.1
Percentage of total mileage travelled empty		70.5	43.7	32.7	33.3	40.8	50.2
Fuel:							
Total gallons of gasoline consumed	'000	55,698	30,339	10,440	19,124	43,446	228,270
Miles per gallon of gasoline		14.7	11.1	8.6	7.5	7.0	8.9
Total gallons of diesel oil consumed	'000	—	—	—	—	—	17,079
Miles per gallon of diesel oil		—	—	—	—	—	6.1
Total gallons of other fuel consumed	'000	—	—	—	—	157	234
Miles per gallon of other fuel		—	—	—	—	7.1	6.7
Weight of goods carried:							
Total tons of goods carried	'000	4,537	7,762	5,341	16,768	81,143	206,106
Average weight carried ¹	ton	0.3	0.7	1.4	2.6	5.6	5.1
Net ton miles:							
Total net ton miles performed	'000	62,131	123,544	85,517	252,053	1,005,523	5,382,932
Average net ton miles per truck		400	2,000	6,300	13,600	46,600	18,000
Capacity ton miles:							
Total capacity ton miles	'000	685,704	498,335	280,505	738,732	2,549,260	12,736,555
Average capacity ton miles per truck		4,100	8,100	20,700	39,900	118,200	42,700
Percentage of capacity utilized		9.1	24.8	30.5	34.1	39.4	42.3
Gross ton miles:							
Total gross ton miles ³	'000	1,434,320	887,130	394,345	834,124	2,556,145	15,394,814
Average gross ton miles per truck		8,600	14,500	29,100	45,100	118,500	51,600
Estimated annual population		165,978	61,180	13,556	18,515	21,572	298,600

¹ Ton miles divided by miles travelled with load.² Capacity ton miles are determined by multiplying the actual number of miles travelled by the estimated capacity or the weight of the heaviest load carried, whichever is larger.³ Gross ton miles performed are determined by adding to the total ton miles performed, the weight of the vehicle empty (tare) multiplied by total miles travelled.

**SECTION III. INTERPROVINCIAL AND INTERNATIONAL TRAFFIC PERFORMED BY ONTARIO REGISTERED TRUCKS
JANUARY 1-DECEMBER 31, 1963**

TABLE 7. Tons of Goods Carried by Province of Origin and Destination

Origin and destination	For hire			Private intercity			Total		
	Into Ontario	Out of Ontario	Total	Into Ontario	Out of Ontario	Total	Into Ontario	Out of Ontario	Total
	'000 tons								
Newfoundland	—	—	—	—	—	—	—	—	—
Prince Edward Island	—	1	1	—	—	—	—	1	1
Nova Scotia	6	7	13	—	1	1	6	8	14
New Brunswick	1	—	1	—	1	1	1	1	2
Quebec	928	1,221	2,149	215	395	610	1,143	1,616	2,759
Manitoba	118	63	181	6	11	17	124	74	198
Saskatchewan	—	2	2	—	—	—	—	2	2
Alberta	11	11	22	—	—	—	11	11	22
British Columbia	13	2	15	—	—	—	13	2	15
Yukon and Northwest Territories	—	—	—	—	—	—	—	—	—
United States	275	347	622	280	162	442	555	509	1,064
Totals	1,352	1,654	3,006	501	570	1,071	1,853	2,224	4,077

TABLE 8. Selected Statistics by Commodity Group

Commodity group	For hire						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton	Total revenue	Revenue per ton mile
	'000 tons	'000	'000	tons	miles	\$'000	¢
Live animals	35	916	7,806	8.5	222.9	527	6.8
Food, feed, beverages and tobacco	519	12,848	184,228	14.3	355.3	7,040	3.8
Crude materials, inedible	293	1,770	27,083	15.3	92.5	957	3.5
Fabricated materials, inedible	824	11,517	186,279	16.2	226.0	8,107	4.4
End products, inedible	656	25,945	216,771	8.4	330.3	20,060	9.3
General freight	679	19,901	304,561	15.3	448.5	21,631	7.1
Totals	3,006	72,897	926,728	12.7	308.3	58,322	6.3
	Private intercity						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton		
	'000 tons	'000	'000	tons	miles		
Live animals	20	662	4,544	6.9	232.5		
Food, feed, beverages and tobacco	307	7,335	83,079	11.3	270.3		
Crude materials, inedible	263	1,901	20,624	10.9	78.4		
Fabricated materials, inedible	361	4,402	61,985	14.1	172.1		
End products, inedible	107	5,356	26,755	5.0	248.9		
General freight	13	467	1,549	3.3	120.0		
Totals	1,071	20,123	198,536	9.9	185.5		

APPENDIX

Type of operation	A. Population						
	0-2½ tons 0-5,000 lb.	2½-5 tons 5,001-10,000 lb.	5-7½ tons 10,001-15,000 lb.	7½-10 tons 15,001-20,000 lb.	10-15 tons 20,001-30,000 lb.	Over 15 tons 30,001 lb. and over	Total
Estimated Ontario truck population in 1963							
For hire	249	788	1,141	2,263	7,021	9,138	20,600
Private:							
Intercity	31,344	13,758	3,338	6,388	7,542	4,714	67,084
Urban	81,215	31,090	7,634	8,621	6,486	3,943	138,989
Farm	53,170	15,544	1,443	1,243	523	4	71,927
Totals	163,978	61,180	13,556	18,515	21,572	17,799	298,600
B. Survey Response							
	Total number of trucks selected in samples	Number of questionnaires returned completed		Number of sampled trucks reported not in use during survey week		Number of questionnaires not returned or returned incomplete and unusable	
For hire	9,804	4,355		2,222		3,227	
Private:							
Intercity	10,833	4,667		2,741		3,425	
Urban	12,135	5,101		3,136		3,898	
Farm	2,375	966		623		786	
Totals	35,147	15,089		8,722		11,336	

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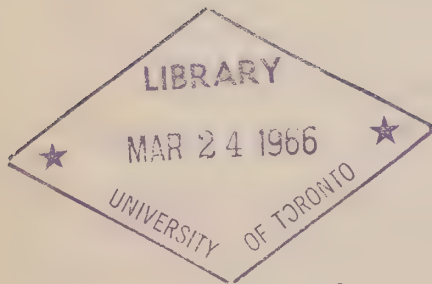
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53-202	International Toll Bridges, Tunnels and Ferries (approx. 12 pp.) Investment, revenues, expenses, traffic, employees, salaries and wages and accidents with list of facilities50
53-206	Motor Vehicle Traffic Accidents (approx. 71 pp.) Number of accidents, persons killed and injured, property damage, time, place, road conditions, etc., by province	1.00
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53-216	Urban Transit (approx. 20 pp.) Investment, revenues, expenses, passengers carried, vehicle miles run, fuel consumed, by electric car, trolley coach and motor bus; equipment, accidents, employees, salaries and wages by province50
53-217	The Motor Vehicle: Part I — Rates and Regulations (approx. 40 pp.) Size, weight and safety regulations, reciprocal highway agreements, fees, taxes and motor carrier regulations, and gasoline tax rate review, by province75
53-218	The Motor Vehicle: Part II — Motive Fuel Sales (approx. 10 pp.) Gross and net sales of gasoline and net sales of diesel oil50
53-219	The Motor Vehicle: Part III — Registrations (approx. 14 pp.) Registrations by type of vehicle, by provinces and municipalities50
53-220	The Motor Vehicle: Part IV — Revenues (approx. 11 pp.) Provincial government revenues from registrations and gasoline taxes; and unsatisfied judgment fund data, by province50
53-221	Moving and Storage, Household Goods (approx. 12 pp.) Number of companies, investment, operating revenues and expenses, employees, salaries and wages, storage space and equipment, by province50
53-222	Motor Carriers — Freight (Common and Contract) — Part I Classes 1 and 2 (approx. 32 pp.) Number of companies, investment, operating revenues and expenses, employees, salaries and wages, equipment and accidents, by province, by revenue class and by type of operation75
53-223	Motor Carriers — Freight (Common and Contract) — Part II Classes 3 and 4 (approx. 16 pp.) See above for description50
63-212	Warehousing (General Merchandising and Refrigerated Goods) (approx. 10 pp.) Number of companies, property, operating and income accounts, employees compensation, storage facilities, truck equipment, by province50
	Motor Transport Traffic	
	Each of the following series of eight annual reports provides statistics on mileage, fuel consumption, truck capacity, goods carried, ton miles, revenues and number of trucks by type of oper- ation and gross vehicle weight group.	
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53-209F	Transport routiers de marchandises: Québec (approx. 12 pp.)50
53-210	Motor Transport Traffic: Ontario (approx. 12 pp.)50
53-211	Motor Transport Traffic: Manitoba (approx. 12 pp.)50
53-212	Motor Transport Traffic: Saskatchewan (approx. 12 pp.)50
53-213	Motor Transport Traffic: Alberta (approx. 12 pp.)50
53-214	Motor Transport Traffic: British Columbia (approx. 12 pp.)50

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PROVINCE OF ONTARIO
JANUARY 1-DECEMBER 31, 1964

CHART-1

TRUCK REGISTRATIONS BY TYPE OF OPERATION

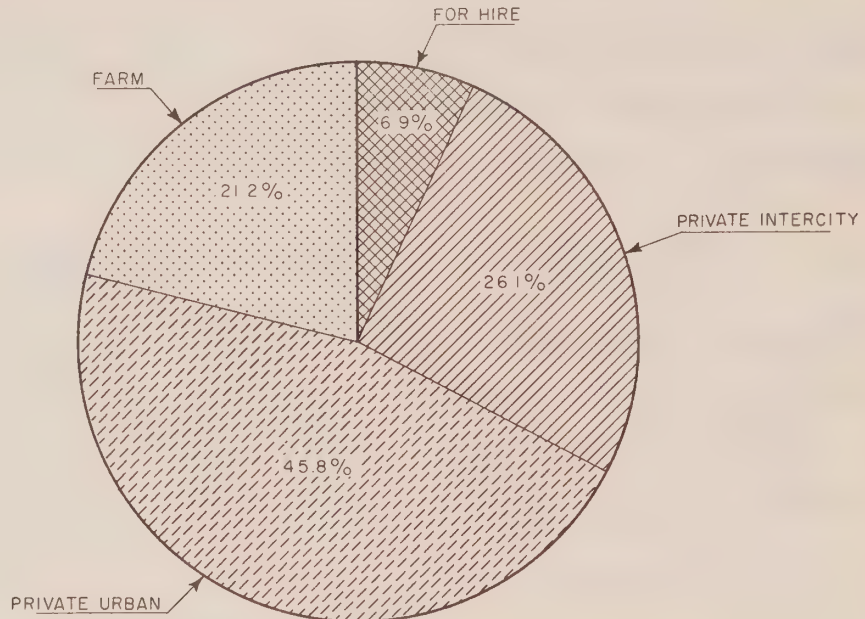
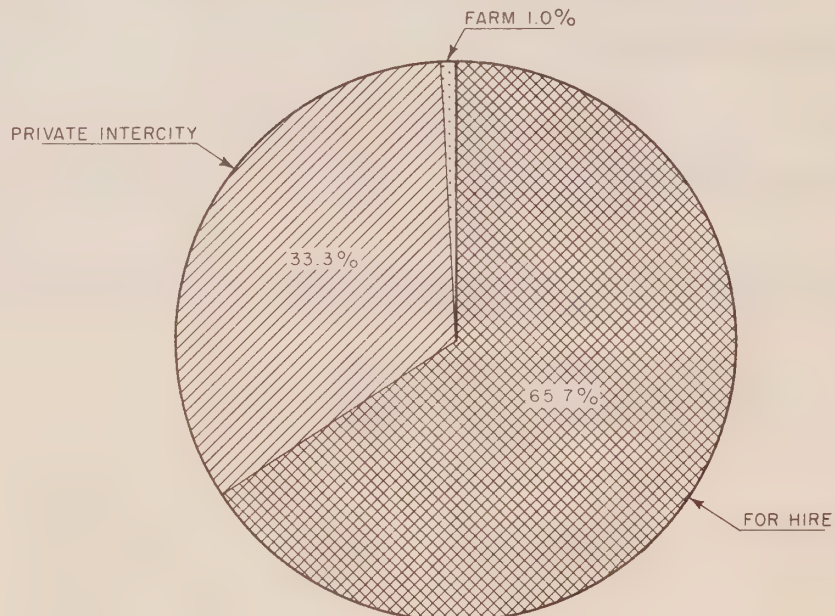


CHART-2

NET TON MILES BY TYPE OF OPERATION



INTRODUCTION

The 1964 annual report of motor transport traffic in the Province of Ontario is based upon a sample of approximately 6 per cent of trucks registered in the province. To allow for seasonal variations in traffic and to ensure that the selected vehicles represented current registrations the sample was selected in four quarterly segments with approximately one fourth of the total selected each quarter. Each quarterly sample was spread over three survey weeks with one third of the sample being used for a seven day period, Sunday through Saturday, per month. The surveys were therefore spread over twelve weeks during the year.

All trucks registered in the province are represented except: (a) those not engaged in transportation services; and (b) military and other government-owned vehicles. Trailers as such were excluded from the sample, but details of tractor-trailer combinations were obtained by including the power units or tractors in the survey.

Vehicles in the sample are stratified by type of operation and by gross vehicle weight group. Since intercity for hire trucks (PCV's) are the only class to be registered separately in Ontario, it is necessary to use completed questionnaires to classify privately operated vehicles in the sample as "intercity", "urban" and "farm".

In this report vehicles have been classified into four functional categories as follows:

For hire	— Public Commercial Vehicles (PCV's) operated for compensation beyond urban areas.
----------	--

Private intercity	— Private non-farm trucks operated beyond urban areas.
-------------------	--

Private urban	— Private and commercial vehicles operated predominately within urban areas.
---------------	--

Farm	— Trucks owned and operated by farmers.
------	---

A number of urban trucks are operated for compensation but these vehicles were not included in the for hire category. As a result, the data shown throughout the report as "for hire" are understated and those for the "private urban" category are overstated by the extent of those urban for hire vehicles classified as "private urban".

Beginning in 1964 the only data recorded for vehicles performing **urban** or **local** operations, regardless of category, are **miles travelled** and **gallons of fuel used** and the **estimated population**. For this reason the 1964 figures shown under various traffic headings are not entirely comparable to the statistics published for 1963.

Further information on the necessity and history of the survey may be found in the report entitled "Motor Transport Traffic, National Estimates, 1957". Additional data and information concerning survey results and methods may be found in the National Estimates, 1958 to 1963, Catalogue No. 53-207.

Expansion of Survey Results

As the survey is conducted on a sample basis data obtained for vehicles included in the sample have to be expanded to represent traffic of the total truck population. The methods used in this expansion of the raw data have been continually improved. Current procedures are:

1. A truck population figure which remains constant for all four quarterly surveys is determined. This constant population is the peak figure of the previous year's quarterly sample population estimates. These estimates are made by multiplying the sample size in each quarter by the inverse of the sample selection ratios.
2. The constant population has to be broken down into gross vehicle weight groups and functions. Therefore, it is necessary to multiply the quarterly sample in each weight group by the inverse of the appropriate selection ratio to arrive at a quarterly population broken down by weight group. The four quarterly populations by gross vehicle weight are added together and a distribution of averages in each weight group for the

year is computed. This weight group distribution is applied to the constant population. The population then has to be distributed by function. This is done by using the average distribution obtained from all the previous year's completed questionnaires.

Since 1960 the actual number of PCV registered trucks and tractors by gross vehicle weight for the previous registration year has been used to estimate the for hire population for the current year. Therefore, the actual PCV population for 1963 was used to arrive at an estimate of the 1964 for hire segment of the truck population. As trailers are licensed separately from tractors in Ontario the gross vehicle weights of tractors in the PCV population were adjusted to combined tractor-trailer gross vehicle weights on the basis of completed questionnaires.

3. Expansion ratios for each gross vehicle weight group of each functional category are then calculated by determining for each breakdown the

number of vehicles for which completed questionnaires were received or which were not in use during the survey period and dividing this sum into the constant population.

4. Because the survey results for sample vehicles relate to one week's operations the expansion ratios calculated in (3) have to be multiplied by 13 to cover the three month period.
5. The expanded data for the four quarters are added together to arrive at an annual total.

While the changes and improvements in methods of compilation mentioned above will to some extent influence comparisons of data between years the effects should not be overly

significant. In addition it is emphasized that since the statistics contained in this report are calculated from a sample survey they are not actual figures but rather only estimates.

It should be noted that in 1961 the description of commodities transported by trucks was changed to conform with the revised "Standard Commodity Classification" produced by the Dominion Bureau of Statistics. Formerly commodities were classified according to the "Railway Freight Commodity Statistics Classification". The change will enable these data to be compared more easily with other commodity data produced by the Dominion Bureau of Statistics.

Review of Survey Results

The estimated population of trucks performing transportation services in Ontario during 1964 decreased 1.4 per cent to 294,500 from 298,600 in 1963. Of these 20,400 or 6.9 per cent were for hire trucks; 76,879 or 26.1 per cent were private intercity vehicles; 134,803 or 45.8 per cent were private vehicles operating wholly within urban areas and 62,418 or 21.2 per cent were farm trucks.

In the following tables blanks appear for some breakdowns of classifications, e.g. diesel fuel and other fuel. In most instances an insufficient number of vehicles were chosen in these categories to produce reliable statistics. However, it does not follow that there were no vehicles in the province relating to these classifications.

Section I: Traffic Inside and Outside the Province

Section I contains estimates of total traffic performed both inside and outside the province by Ontario registered trucks.

Although comprising only 6.9 per cent of the Ontario truck population, for hire vehicles accounted for 65.7 per cent of the total net ton miles and 54.8 per cent of the total tons carried during 1964. This results from the high average yearly mileage of these trucks of 26,000 miles compared to 8,000 miles for all trucks and from the heavy average load carried of 11.6 tons compared to 7.4 tons for all trucks. Since over four fifths of all "for hire" vehicles have a gross vehicle weight of over 10 tons the heavier loads carried by these trucks are to be expected. The predominance of heavier vehicles in the for hire category also explains the low estimate of 5.2 miles per gallon of gasoline compared to 8.1 for all trucks.

Some trucks in Ontario under 10,000 lb. gross vehicle weight are used essentially for personal transportation. Such vehicles accounted for about 10 per cent of the total mileage travelled by Ontario registered trucks.

Section II: Traffic Within the Province

This section presents estimates of traffic performed by Ontario registered trucks entirely inside the province and excludes the "Outside the Province" portion of interprovincial and international traffic as well as any traffic performed entirely outside the province. Comparing the data in Section I and Section II it will be noted that for hire vehicles accumulated 87 per cent and private intercity 86.8 per cent of their total net ton miles inside Ontario.

Section III: Interprovincial and International Traffic

Interprovincial and international traffic accounted for more than one quarter of the net ton miles performed by "for hire" vehicles and one quarter of the revenue. Almost three quarters of the total tons of goods carried in this type of trip by Ontario registered "for hire" trucks was transported to or from Quebec and one quarter to or from the United States.

Appendix

The appendix contains the estimated truck population in 1964 by gross vehicle weight groups.

January 25, 1966.

**SECTION I. TRAFFIC PERFORMED BY ONTARIO REGISTERED TRUCKS INSIDE AND OUTSIDE THE PROVINCE
JANUARY 1-DECEMBER 31, 1964**

TABLE 1. Total Operations (Intercity, Rural and Urban) of All Trucks

	For hire	Private			Total
		Intercity	Urban	Farm	
Mileage:					
Total mileage travelled..... '000	529,870	837,682	803,866	194,451	2,365,869
Average yearly mileage per truck.....	26,000	10,900	6,000	3,100	8,000
Revenue per mile (total mileage travelled)..... ¢	48.1	—	—	—	—
Fuel:					
Total gallons of gasoline consumed..... '000	79,968	87,511	87,313	17,616	272,408
Miles per gallon of gasoline.....	5.2	9.0	9.1	11.0	8.1
Total gallons of diesel oil consumed..... '000	18,421	8,225	1,186	—	27,832
Miles per gallon of diesel oil.....	6.1	5.9	5.0	—	6.0
Total gallons of other fuel consumed.....	—	—	—	—	—
Miles per gallon of other fuel.....	—	—	—	—	—
Estimated annual population.....	20,400	76,879	134,803	62,418	294,500

TABLE 1 A. Intercity and Rural Operations Only of For Hire, Private Intercity and Farm Trucks

	For hire	Private		Total	
		Intercity	Farm		
Mileage:					
Total mileage travelled	'000	529,870	837,682	194,451	1,562,003
Percentage of total mileage travelled empty		42.5	56.7	70.5	53.6
Weight of goods carried:					
Total tons of goods carried	'000	38,275	27,858	3,709	69,842
Average weight carried ¹	ton	11.6	4.9	0.9	7.4
Average distance each ton was carried		92.1	64.2	14.2	76.8
Net ton miles:					
Total net ton miles performed	'000	3,523,723	1,788,075	52,532	5,364,330
Average net ton miles per truck		172,700	23,300	800	33,600
Capacity ton miles:					
Total capacity ton miles ²	'000	6,863,174	4,304,320	269,689	11,437,183
Average capacity ton miles per truck		336,400	56,000	4,300	71,600
Percentage of capacity utilized		51.3	41.5	19.5	46.9
Gross ton miles:					
Total gross ton miles ³	'000	8,193,047	5,189,707	432,032	13,814,786
Average gross ton miles per truck		401,600	67,500	6,900	86,500
Revenue:					
Total revenue	\$'000	254,705	—	—	—
Revenue per ton mile	¢	7.2	—	—	—
Average revenue per truck	\$	12,500	—	—	—
Estimated annual population		20,400	76,879	62,418	159,697

See footnotes at end of Table 6 A, page 11.

Note: Table 1 A excludes the operations of vehicles in the urban category and the urban operations of for hire and private intercity vehicles (except mileage).

For further explanation of the difference between Table 1 and Table 1 A see page 5, paragraph 6 of text.

**TABLE 2. Total Operations (Intercity, Rural and Urban) of All Trucks
by Gross Vehicle Weight Group**

	0-2½ tons 0-5,000 lb.	2½-5 tons 5,001-10,000 lb.	5-7½ tons 10,001-15,000 lb.	7½-10 tons 15,001-20,000 lb.	10-15 tons 20,001-30,000 lb.	Over 15 tons 30,001 lb. and over	Total
Mileage:							
Total mileage travelled '000	891,538	358,992	89,493	162,897	294,820	568,129	2,365,869
Average yearly mileage per truck	5,400	6,100	6,800	9,300	14,000	30,400	8,000
Fuel:							
Total gallons of gasoline consumed '000	68,615	35,964	11,602	22,591	46,635	87,001	272,408
Miles per gallon of gasoline	13.0	10.0	7.7	7.2	6.3	4.6	8.1
Total gallons of diesel oil consumed '000	—	31	—	144	171	27,486	27,832
Miles per gallon of diesel oil	—	14.5	—	9.5	6.1	6.0	6.0
Total gallons of other fuel consumed	—	—	—	—	—	—	—
Miles per gallon of other fuel	—	—	—	—	—	—	—
Estimated annual population	164,954	59,019	13,201	17,556	21,071	18,699	294,500

**TABLE 2 A. Intercity and Rural Operations Only of For Hire, Private Intercity and Farm Trucks
by Gross Vehicle Weight Group**

	0-2½ tons 0-5,000 lb.	2½-5 tons 5,001-10,000 lb.	5-7½ tons 10,001-15,000 lb.	7½-10 tons 15,001-20,000 lb.	10-15 tons 20,001-30,000 lb.	Over 15 tons 30,001 lb. and over	Total
Mileage:							
Total mileage travelled '000	467,647	190,100	41,248	106,255	234,799	521,954	1,562,003
Percentage of total mileage travelled empty	75.4	58.2	47.3	48.4	53.0	34.2	53.6
Weight of goods carried:							
Total tons of goods carried '000	2,073	2,206	988	3,998	16,824	43,753	69,842
Average weight carried ¹ ton	0.3	0.6	1.5	2.6	4.9	13.3	7.4
Average distance each ton was carried	15.7	22.6	33.3	35.2	32.2	104.4	76.8
Net ton miles:							
Total net ton miles performed '000	32,621	49,856	32,922	140,879	541,806	4,566,246	5,364,330
Average net ton miles per truck	400	1,700	6,000	14,900	37,000	310,500	33,600
Capacity ton miles:							
Total capacity ton miles ² '000	354,903	255,077	112,309	459,019	1,482,002	8,773,873	11,437,183
Average capacity ton miles per truck	4,200	8,500	20,500	48,600	101,300	596,600	71,600
Percentage of capacity utilized	9.2	19.5	29.3	30.7	36.6	52.0	46.9
Gross ton miles:							
Total gross ton miles ³ '000	740,396	438,147	147,281	499,157	1,450,793	10,539,012	13,814,786
Average gross ton miles per truck	8,700	14,600	26,900	52,800	99,200	716,600	86,500
Estimated annual population	85,442	30,010	5,466	9,447	14,625	14,707	159,697

See footnotes at end of Table 6 A, page 11.

Note: Table 2 A excludes the operations of vehicles in the urban category and the urban operations of for hire and private intercity vehicles (except mileage).

For further explanation of the difference between Table 2 and Table 2 A see page 5, paragraph 6 of text.

TABLE 3. Selected Statistics by Gross Vehicle Weight Group

Gross vehicle weight	For hire						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton	Total revenue	Revenue per ton mile
	'000 tons	'000	'000	tons	miles	\$'000	¢
20,000 lb. and under	826	13,559	24,545	1.8	29.7	8,349	34.0
20,001-30,000 lb.	7,922	40,872	203,195	5.0	25.6	25,733	12.7
30,001-50,000 "	5,725	41,299	326,808	7.9	57.1	42,513	13.0
50,001 lb. and over	23,802	208,975	2,969,175	14.2	124.7	178,110	6.0
Totals	38,275	304,705	3,523,723	11.6	92.1	254,705	7.2
	Private intercity						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton		
	'000 tons	'000	'000	tons	miles		
10,000 lb. and under	1,781	143,461	59,439		0.4		33.4
10,001-20,000 lb.	3,515	59,152	133,797		2.3		38.1
20,001-30,000 "	8,336	67,007	324,576		4.8		38.9
30,001-50,000 "	5,256	28,304	256,719		9.1		48.8
50,001 lb. and over	8,970	64,641	1,013,544		15.7		113.0
Totals	27,858	362,565	1,788,075		4.9		64.2

TABLE 4. Selected Statistics by Commodity Group

Commodity group	For hire						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton	Total revenue	Revenue per ton mile
	'000 tons	'000	'000	tons	miles	\$'000	¢
Live animals	710	10,221	57,219	5.6	80.5	5,792	10.1
Food, feed, beverages and tobacco	5,640	59,612	648,586	10.9	115.0	39,242	6.1
Crude materials, inedible	13,103	23,260	343,327	14.8	26.2	16,267	4.7
Fabricated materials, inedible	9,508	59,872	1,011,951	16.9	106.4	47,728	4.7
End products, inedible	3,909	70,972	580,813	8.2	148.6	63,262	10.9
General freight	5,405	80,768	881,827	10.9	163.2	82,414	9.3
Totals	38,275	304,705	3,523,723	11.6	92.1	254,705	7.2
	Private intercity						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton		
	'000 tons	'000	'000	tons	miles		
Live animals	373	6,173	29,761		4.8		79.9
Food, feed, beverages and tobacco	6,517	127,617	506,722		4.0		77.8
Crude materials, inedible	8,315	33,427	248,986		7.4		29.9
Fabricated materials, inedible	8,841	61,313	563,819		9.2		63.8
End products, inedible	2,351	97,632	258,188		2.6		109.8
General freight	1,461	36,403	180,599		5.0		123.6
Totals	27,858	362,565	1,788,075		4.9		64.2

**SECTION II. TRAFFIC PERFORMED BY ONTARIO REGISTERED TRUCKS WITHIN THE PROVINCE
JANUARY 1 - DECEMBER 31, 1964**

TABLE 5. Total Operations (Intercity, Rural and Urban) of All Trucks

	For hire	Private			Total
		Intercity	Urban	Farm	
Mileage:					
Total mileage travelled '000	488,797	787,540	803,866	194,451	2,274,654
Average yearly mileage per truck	24,000	10,200	6,000	3,100	7,700
Revenue per mile (total mileage travelled) ¢	45.8	—	—	—	—
Fuel:					
Total gallons of gasoline consumed '000	76,709	83,025	87,313	17,616	264,663
Miles per gallon of gasoline	5.2	9.0	9.1	11.0	8.1
Total gallons of diesel oil consumed '000	14,187	6,272	1,186	—	21,645
Miles per gallon of diesel oil	6.2	5.8	5.0	—	6.0
Total gallons of other fuel consumed	—	—	—	—	—
Miles per gallon of other fuel	—	—	—	—	—
Estimated annual population	20,400	76,879	134,803	62,418	294,500

TABLE 5 A. Intercity and Rural Operations of For Hire, Private Intercity and Farm Trucks

	For hire	Private		Total
		Intercity	Farm	
Mileage:				
Total mileage travelled '000	488,797	787,540	194,451	1,470,788
Percentage of total mileage travelled empty	44.5	57.8	70.5	55.0
Weight of goods carried:				
Total tons of goods carried '000	38,054	27,649	3,709	69,412
Average weight carried ¹ ton	11.3	4.7	0.9	7.1
Average distance each ton was carried	80.6	56.1	14.2	67.3
Net ton miles:				
Total net ton miles performed '000	3,067,861	1,551,689	52,532	4,672,082
Average net ton miles per truck	150,400	20,200	800	29,300
Capacity ton miles:				
Total capacity ton miles ² '000	6,122,594	3,861,723	269,689	10,254,006
Average capacity ton miles per truck	300,100	50,200	4,300	64,200
Percentage of capacity utilized	50.1	40.2	19.5	45.6
Gross ton miles:				
Total gross ton miles ³ '000	7,190,638	4,626,046	432,032	12,248,716
Average gross ton miles per truck	352,500	60,200	6,900	76,700
Revenue:				
Total revenue \$'000	223,695	—	—	—
Revenue per ton mile ¢	7.3	—	—	—
Average revenue per truck \$	11,000	—	—	—
Estimated annual population	20,400	76,879	62,418	159,697

See footnotes at end of Table 6 A, page 11.

Note: Table 5 A excludes the operations of vehicles in the urban category and the urban operations of for hire and private intercity vehicles (except mileage).

For further explanation of the difference between Table 5 and Table 5 A see page 5, paragraph 6 of text.

**TABLE 6. Total Operations (Intercity, Rural and Urban) of All Trucks
by Gross Vehicle Weight Group**

	0-2½ tons 0-5,000 lb.	2½-5 tons 5,001-10,000 lb.	5-7½ tons 10,001-15,000 lb.	7½-10 tons 15,001-20,000 lb.	10-15 tons 20,001-30,000 lb.	Over 15 tons 30,001 lb. and over	Total
Mileage:							
Total mileage travelled '000	876,896	355,000	87,755	157,492	290,111	507,400	2,274,654
Average yearly mileage per truck	5,300	6,000	6,600	9,000	13,800	27,100	7,700
Fuel:							
Total gallons of gasoline consumed '000	67,854	35,734	11,255	21,772	45,931	82,117	264,663
Miles per gallon of gasoline	12.9	9.9	7.8	7.2	6.3	4.6	8.1
Total gallons of diesel oil consumed '000	—	31	—	126	170	21,318	21,645
Miles per gallon of diesel oil	—	14.5	—	10.3	6.1	6.0	6.0
Total gallons of other fuel consumed	—	—	—	—	—	—	—
Miles per gallon of other fuel	—	—	—	—	—	—	—
Estimated annual population	164,954	59,019	13,201	17,556	21,071	18,699	294,500

**TABLE 6A. Intercity and Rural Operations Only of For Hire, Private Intercity and Farm Trucks
by Gross Vehicle Weight Group**

	0-2½ tons 0-5,000 lb.	2½-5 tons 5,001-10,000 lb.	5-7½ tons 10,001-15,000 lb.	7½-10 tons 15,001-20,000 lb.	10-15 tons 20,001-30,000 lb.	Over 15 tons 30,001 lb. and over	Total
Mileage:							
Total mileage travelled '000	453,005	186,108	39,509	100,850	230,090	461,226	1,470,788
Percentage of total mileage travelled empty	75.7	59.1	46.2	48.9	53.2	36.1	55.0
Weight of goods carried:							
Total tons of goods carried '000	2,073	2,206	986	3,979	16,805	43,363	69,412
Average weight carried ¹ ton	0.3	0.6	1.5	2.5	4.9	13.8	7.1
Average distance each ton was carried	15.4	22.3	32.8	32.1	31.3	90.1	67.3
Net ton miles:							
Total net ton miles performed '000	31,842	49,081	32,353	127,767	526,098	3,904,941	4,672,082
Average net ton miles per truck	400	1,600	5,900	13,500	36,000	265,500	29,300
Capacity ton miles:							
Total capacity ton miles ² '000	343,733	249,430	107,493	427,055	1,443,465	7,682,830	10,254,006
Average capacity ton miles per truck	4,000	8,300	19,700	45,200	98,700	522,400	64,200
Percentage of capacity utilized	9.3	19.7	30.1	29.9	36.4	50.8	45.6
Gross ton miles:							
Total gross ton miles ³ '000	718,480	429,399	141,356	466,432	1,412,045	9,081,004	12,248,716
Average gross ton miles per truck	8,400	14,300	25,900	49,400	96,600	617,500	76,700
Estimated annual population	85,442	30,010	5,466	9,447	14,625	14,707	159,697

¹ Ton miles divided by miles travelled with load.² Capacity ton miles are determined by multiplying the actual number of miles travelled by the estimated capacity or the weight of the heaviest load carried, whichever is larger.³ Gross ton miles performed are determined by adding to the total ton miles performed, the weight of the vehicle empty (tare) multiplied by total miles travelled.**Note:** Table 6A excludes the operations of vehicles in the urban category and the urban operations of for hire and private intercity vehicles (except mileage).

For further explanation of the difference between Table 6 and Table 6A see page 5, paragraph 6 of text.

**SECTION III. INTERPROVINCIAL AND INTERNATIONAL TRAFFIC PERFORMED BY ONTARIO REGISTERED TRUCKS
JANUARY 1-DECEMBER 31, 1964**

TABLE 7. Tons of Goods Carried by Province of Origin and Destination

Origin and destination	For hire			Private intercity			Total		
	Into Ontario	Out of Ontario	Total	Into Ontario	Out of Ontario	Total	Into Ontario	Out of Ontario	Total
	'000 tons								
Newfoundland	—	—	—	—	—	—	—	—	—
Prince Edward Island	—	—	—	—	—	—	—	—	—
Nova Scotia	3	—	3	—	2	2	3	2	5
New Brunswick	2	4	6	5	13	18	7	17	24
Quebec	1,169	1,442	2,611	344	519	863	1,513	1,961	3,474
Manitoba	77	34	111	31	12	43	108	46	154
Saskatchewan	—	—	—	3	—	3	3	—	3
Alberta	8	9	17	—	—	—	8	9	17
British Columbia	—	8	8	3	—	3	3	8	11
Yukon and Northwest Territories	—	—	—	—	—	—	—	—	—
United States	194	720	914	292	293	585	486	1,013	1,499
Totals	1,453	2,217	3,670	678	839	1,517	2,131	3,056	5,187

TABLE 8. Selected Statistics by Commodity Group

Commodity group	For hire						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton	Total revenue	Revenue per ton mile
	'000 tons	'000	'000	tons	miles	\$'000	¢
Live animals	79	1,549	12,223	7.9	154.1	1,217	10.0
Food, feed, beverages and tobacco	502	11,866	167,389	14.1	333.6	6,326	3.8
Crude materials, inedible	439	2,106	29,303	13.9	66.7	1,448	4.9
Fabricated materials, inedible	942	12,619	214,865	17.0	228.2	9,511	4.4
End products, inedible	695	20,301	191,162	9.4	275.1	17,769	9.3
General freight	1,013	28,260	371,631	13.2	366.8	24,655	6.6
Totals	3,670	76,701	986,573	12.9	268.8	60,926	6.2
	Private intercity						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton		
	'000 tons	'000	'000	tons	miles		
Live animals	21	1,123	6,028	5.4	288.9		
Food, feed, beverages and tobacco	424	10,414	129,459	12.4	305.7		
Crude materials, inedible	205	5,277	25,076	4.8	122.3		
Fabricated materials, inedible	449	5,897	87,185	14.8	194.1		
End products, inedible	216	14,827	78,945	5.3	364.8		
General freight	202	5,966	73,699	12.4	365.2		
Totals	1,517	43,504	400,392	9.2	264.0		

APPENDIX
Estimated Ontario Truck Population .....	13

Type of operation	0-2½ tons 0-5,000 lb.	2½-5 tons 5,001-10,000 lb.	5-7½ tons 10,001-15,000 lb.	7½-10 tons 15,001-20,000 lb.	10-15 tons 20,001-30,000 lb.	Over 15 tons 30,001 lb. and over	Total
For hire	289	669	894	2,039	6,474	10,035	20,400
Private:							
Intercity	40,149	15,050	3,196	6,254	7,558	4,672	76,879
Urban	79,512	29,009	7,735	8,109	6,446	3,992	134,803
Farm	45,004	14,291	1,376	1,154	593	—	62,418
Totals	164,954	59,019	13,201	17,556	21,071	18,699	294,500

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